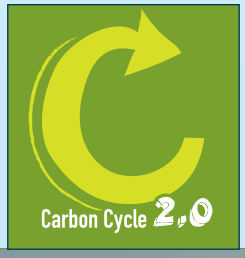

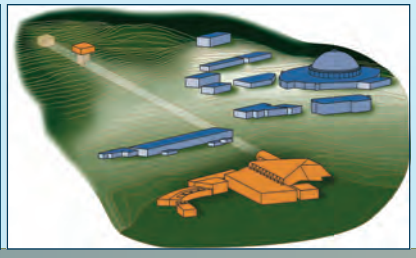


# OCFO Annual Report 2010

# Annual Report


Ernest Orlando Lawrence Berkeley National Laboratory
University of California
Berkeley, California

January 2011

BERKELEY LAB
Lawrence Berkeley National Laboratory

**OCFO** Office of the Chief Financial Officer

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## Chief Financial Officer's Statement

FY2010 was an extraordinary year. The Laboratory welcomed its seventh Director, Dr. Paul Alivisatos, who wasted no time communicating his vision and priorities for Berkeley Lab. They include five very ambitious initiatives: Carbon Cycle 2.0, The Next Generation Light Source, a Safe and Efficient Lab, Building Community, and Space. In response, the Office of the Chief Financial Officer (OCFO) developed twelve specific initiatives that align completely with these five priorities. We will be very focused on these in the coming fiscal year, but for now, let's review what happened in FY2010.

# Discovery

In March, a review team consisting of CFOs from other national laboratories, industry, and members of the University of California Office of the President (UCOP) convened for three days to conduct a comprehensive peer review of the OCFO. This was the first time in almost a decade that the financial operations of the Laboratory had been reviewed. The Committee relayed their observations on our strengths, and their very thoughtful recommendations for improvement, which we are actively pursuing. These improvements, when implemented, will benefit the entire Laboratory for many years to come. The complete report is available on the OCFO website (www.lbl.gov/Workplace/CFO).

In August, the senior management team of the OCFO participated in a strategic planning retreat. The purpose of the two and a half day exercise was, of course, to update our strategic plan, but instead of spending days developing a written document, we enlisted the expertise of a seasoned journalist who also happens to be a very talented graphic artist. He listened carefully to our ideas and committed them to a visual roadmap. All members of the OCFO, Business Managers, and the Laboratory Leadership Team reviewed this draft roadmap. By having a completely visual strategic plan that is posted widely throughout the OCFO, all employees can easily see and identify with the goals that we are all working towards.

# Accomplishment

FY2010 was a pivotal year for the Procurement and Property Department. A provision of the management contract that was signed fives years ago required us to achieve cost savings of $30M. I am proud to announce that this last fiscal year we reached that goal, in large part due to the implementation of eBuy, and the negotiation of strategic sourcing contracts.

Our last wall-to-wall inventory exceeded all the Department of Energy's (DOE) national targets and DOE approved the LBNL property system unconditionally. Of the total inventory, 92.3% or 25,601 assets were accounted for using barcode scanning that made the inventory process much more efficient.

The effective management of the American Recovery and Reinvestment Act (ARRA) funds was strengthened by the continued successful partnership that LBNL shares with our DOE Site Office. They provided authority, support and clarity to this very complex task. The Laboratory's ARRA Stimulus Committee played a critical role in assuring internal controls, compliance with DOE regulations and quality financial management. The LBNL Budget Officer led a DOE complex-wide effort to identify and share how various DOE facilities track and report ARRA-funded projects, share best practices, evaluate issues and discuss solutions. LBNL has been recognized as a leader in this process and will continue

## **Chief Financial Officer's Statement** Continued

to share knowledge and best practices with other DOE laboratories.

Continuous education of our staff as well as the greater Laboratory population was still a major focus of the OCFO. With the help of many OCFO senior managers and staff that acted as subject-matter experts, the Core Financial Management Program was completely re-engineered and resulted in a revised classroom and web-based curriculum that will be formally rolled out Lab-wide in early FY2011.

The Office of Sponsored Projects and Industry Partnerships (OSPIP) led the effort to select and purchase four Click Commerce software modules for the LBNL electronic Scientific Research Administration (eSRA) project. In early FY2010, the implementation of the Institutional Review Board (IRB) module, responsible for the human subjects review process, began and should be completed in early FY2011. OSPIP also began implementation of the grants and contracts module and we expect an early go-live of "Grants Express" in mid-FY2011 with a full completion date in FY2012.

# Challenge for the Future

The peer review's most substantial recommendation for improvement involved the Laboratory's central financial systems. To quote: "financial reporting system is outdated and inadequate. There is an inability to easily extract data; the field has little confidence in data; people spend more time mining data than analyzing data; requires field users to create & rely upon shadow systems; causes proliferation of program administrators and resource analysts. These issues impact the quality & execution of research; and the data warehouse lacks understanding & ownership."

*Resolving these findings is likely one of the highest cost savings opportunities.*

To meet this challenge, the OCFO began implementing a multi-year financial system modernization project (FSM) to enhance end-to-end processes in areas such as Procure-to-Pay, Proposal-to-Closeout, Budget-to-Cost, Time Reporting and Payroll, Travel and Conferences, and Decision Support. The Project Team has been evaluating and will be selecting a subcontractor who will assess our current state, document stakeholder needs, re-engineer high priority business and financial processes, develop requirements and a roadmap for process and applications modernization, and develop a plan for governance and organizational change management.

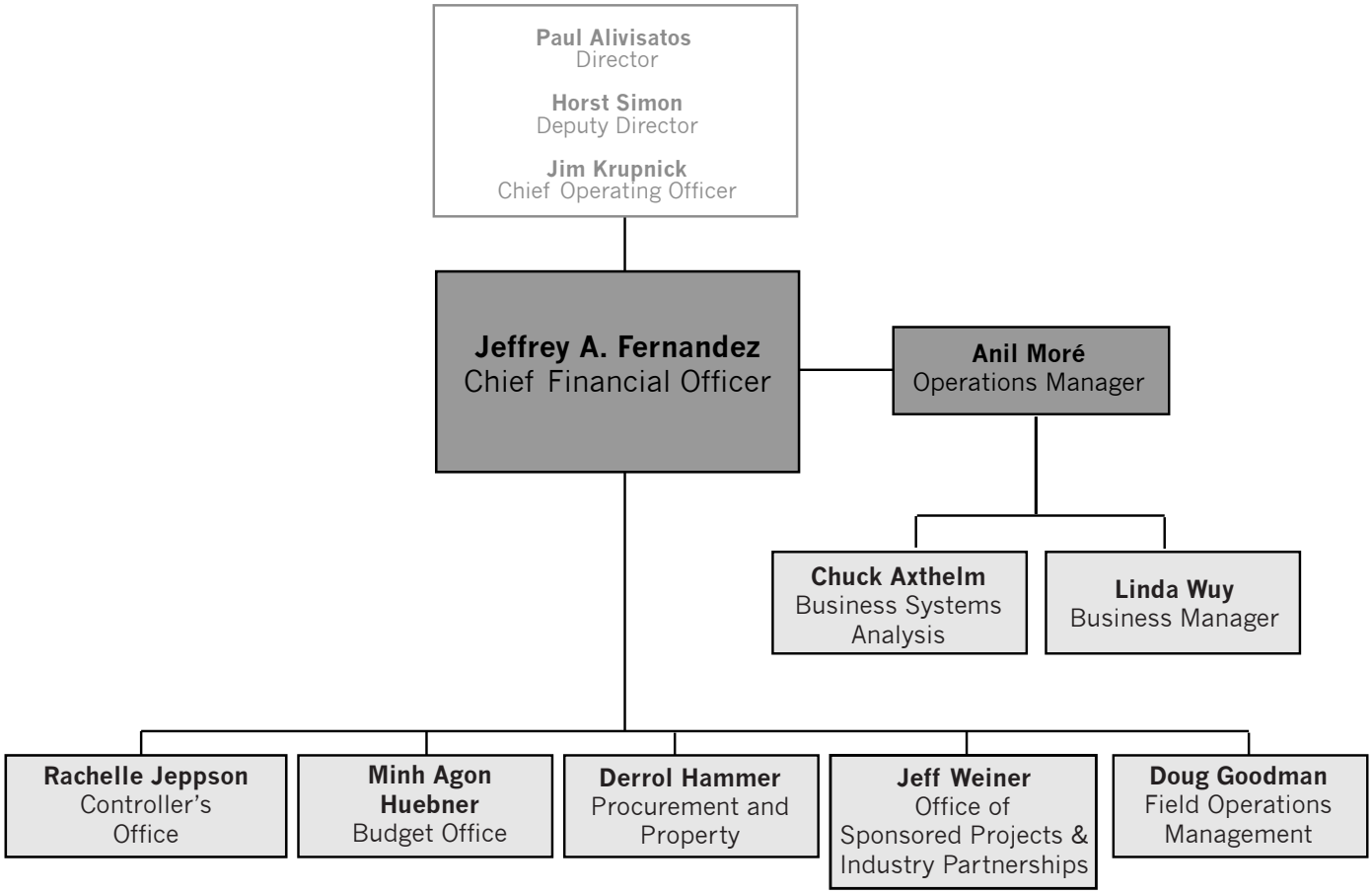
This project is a once-in-a-decade undertaking that is scheduled to be complete by FY2013 and the full return on investment will be realized within several years.

I look forward to the coming year with great anticipation as the beginning of significant improvements and efficiencies to enhance the service OCFO provides to the scientific community.

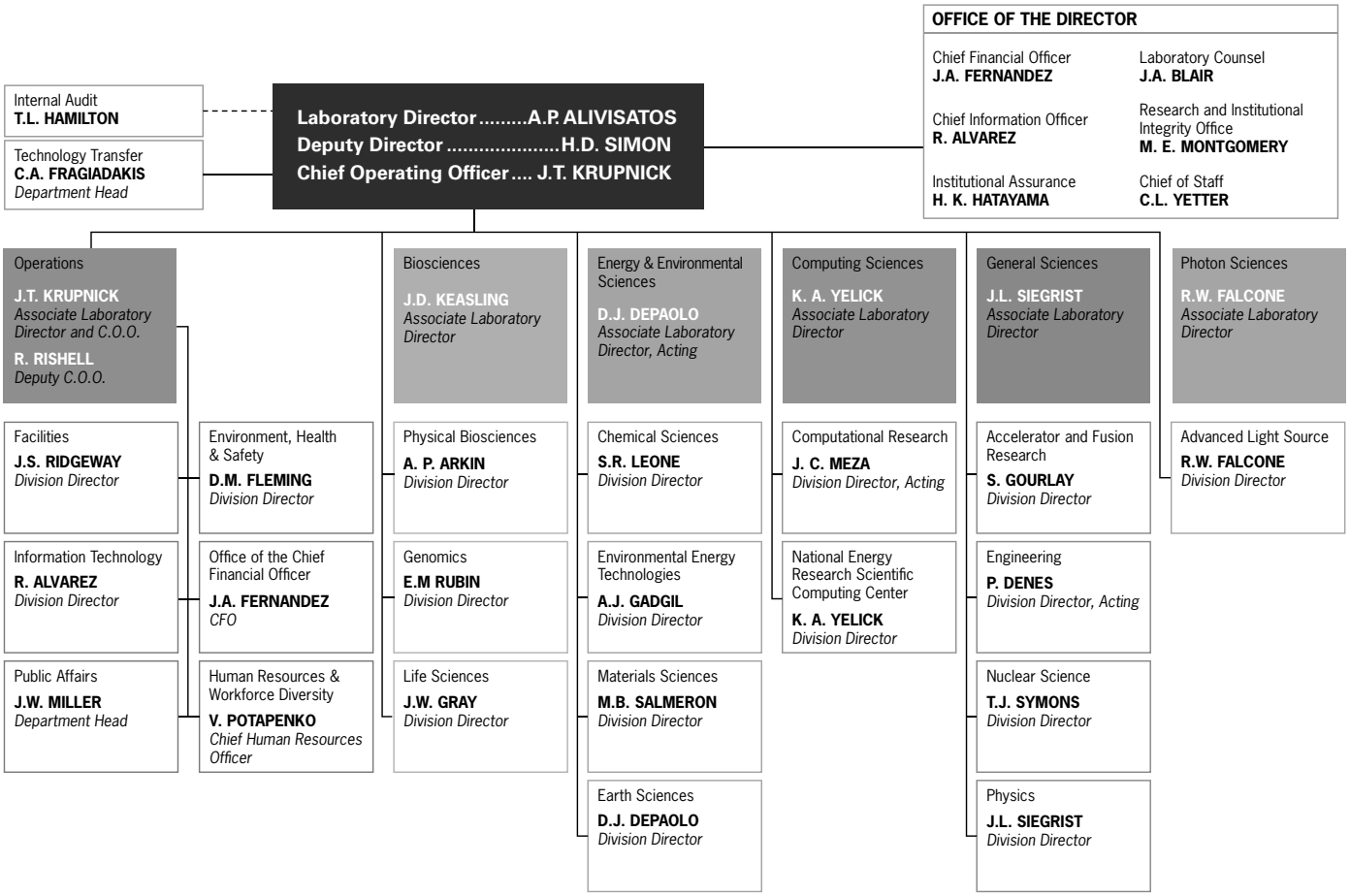
Sincerely,

Jeffrey A. Fernandez
Chief Financial Officer

## Office of the Chief Financial Officer



## Lawrence Berkeley National Laboratory (LBNL), University of California



# 1. Institutional Information

Figure 1.1

## Where Did Your Program Dollars Go in FY2010?

| Expenses | LBNL Cost Breakdown per Dollar | | | |
|---|---|---|---|---|
| | DOE Operating Costs | DOE Integrated Contractors Costs | Construction and Equipment | WFO Non-DOE |
| **DIRECT:** | | | | |
| **Direct Labor** | | | | |
| UC Labor (a) | $0.32 | $0.37 | $0.09 | $0.35 |
| Contract Labor | $0.00 | $0.00 | $0.00 | $0.00 |
| Organizational Burden (b) | $0.05 | $0.06 | $0.01 | $0.07 |
| **Subtotal Direct Labor** | **$0.37** | **$0.43** | **$0.11** | **$0.42** |
| **Other Direct** | | | | |
| Services | $0.24 | $0.11 | $0.40 | $0.15 |
| Materials | $0.10 | $0.05 | $0.42 | $0.09 |
| Utilities | $0.01 | $0.00 | $0.00 | $0.01 |
| Other Expenses (c) | $0.00 | $0.01 | $0.00 | $0.01 |
| Recharges (b,d) | $0.01 | $0.11 | $0.01 | $0.03 |
| Travel | $0.02 | $0.01 | $0.00 | $0.02 |
| **Subtotal Other Direct** | **$0.39** | **$0.29** | **$0.83** | **$0.31** |
| **Total Direct** | **$0.77** | **$0.72** | **$0.94** | **$0.72** |
| **INDIRECT:** | | | | |
| Procurement | $0.01 | $0.01 | $0.02 | $0.01 |
| Travel | $0.00 | $0.00 | $0.00 | $0.00 |
| G&A (Other Institutional) | $0.22 | $0.27 | $0.04 | $0.26 |
| **Total Indirect** | **$0.23** | **$0.28** | **$0.06** | **$0.28** |
| **TOTAL EXPENSES** | **$1.00** | **$1.00** | **$1.00** | **$1.00** |

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).
(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

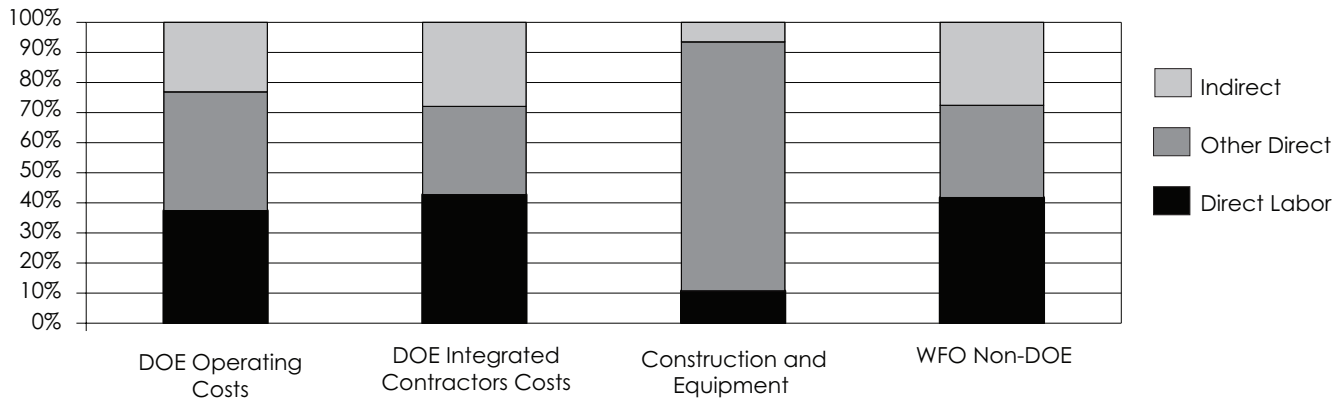


Table 1.1

## Cost Trends by Expense Category, FY2006 - FY2010 ($M and % of Total)

| | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | FY 2010 | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Expenses** | **$M** | **%** | **$M** | **%** | **$M** | **%** | **$M** | **%** | **$M** | **%** |
| **DIRECT:** | | | | | | | | | | |
| **Direct Labor** | | | | | | | | | | |
| UC Labor (a) | 175.4 | 33.9% | 180.3 | 34.9% | 191.7 | 32.5% | 206.8 | 31.9% | 237.2 | 29.2% |
| Contract Labor | 0.9 | 0.2% | 1.3 | 0.3% | 1.2 | 0.2% | 1.9 | 0.3% | 1.4 | 0.2% |
| Organizational Burden (b) | 29.2 | 5.6% | 29.8 | 5.8% | 30.4 | 5.2% | 33.0 | 5.1% | 37.1 | 4.6% |
| **Subtotal Direct Labor** | **205.6** | **39.7%** | **211.4** | **40.9%** | **223.3** | **37.9%** | **241.7** | **37.3%** | **275.7** | **34.0%** |
| **Other Direct** | | | | | | | | | | |
| Services | 91.7 | 17.7% | 84.0 | 16.3% | 117.2 | 19.9% | 140.7 | 21.7% | 203.3 | 25.1% |
| Materials | 68.4 | 13.2% | 68.0 | 13.2% | 82.1 | 13.9% | 78.3 | 12.1% | 120.6 | 14.9% |
| Utilities | 5.1 | 1.0% | 6.2 | 1.2% | 7.3 | 1.2% | 8.0 | 1.2% | 8.3 | 1.0% |
| Other Expenses (c) | 1.9 | 0.4% | 2.7 | 0.5% | 2.8 | 0.5% | 4.0 | 0.6% | 4.5 | 0.6% |
| Recharges (b,d) | 10.6 | 2.0% | 8.4 | 1.6% | 8.9 | 1.5% | 14.1 | 2.2% | 14.3 | 1.8% |
| Travel | 9.8 | 1.9% | 7.9 | 1.5% | 9.4 | 1.6% | 9.3 | 1.4% | 11.7 | 1.4% |
| **Subtotal Other Direct** | **187.4** | **36.2%** | **177.2** | **34.3%** | **227.7** | **38.6%** | **254.4** | **39.3%** | **362.8** | **44.7%** |
| **Total Direct** | **393.0** | **76.0%** | **388.5** | **75.2%** | **451.0** | **76.5%** | **496.0** | **76.6%** | **638.5** | **78.7%** |
| **INDIRECT:** | | | | | | | | | | |
| Procurement | 7.5 | 1.5% | 7.4 | 1.4% | 8.2 | 1.4% | 7.3 | 1.1% | 8.5 | 1.0% |
| Travel | 0.8 | 0.2% | 0.9 | 0.2% | 1.2 | 0.2% | 1.3 | 0.2% | 1.5 | 0.2% |
| G&A (Other Institutional) | 115.8 | 22.4% | 119.6 | 23.2% | 129.2 | 21.9% | 143.0 | 22.1% | 162.5 | 20.0% |
| **Total Indirect** | **124.2** | **24.0%** | **127.8** | **24.8%** | **138.5** | **23.5%** | **151.7** | **23.4%** | **172.5** | **21.3%** |
| **TOTAL EXPENSES** | **517.2** | **100.0%** | **516.4** | **100.0%** | **589.5** | **100.0%** | **647.7** | **100.0%** | **811.1** | **100.0%** |

Note: Minor variances may occur due to rounding.

(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.

(b) Distributed activities used by direct funded programs.

(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).

(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

Table 1.2

## Direct Cost Trends by Division, FY2006 - FY2010 ($K)

| Division | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 |
|---|---|---|---|---|---|
| Accelerator & Fusion Research | 25,595 | 28,099 | 26,042 | 28,139 | 39,175 |
| Advanced Light Source | 44,180 | 48,906 | 51,508 | 49,662 | 57,656 |
| Chemical Sciences | 12,554 | 14,877 | 17,002 | 15,694 | 17,715 |
| Computing Sciences (a) | 79,614 | 77,355 | 101,133 | 103,461 | 128,123 |
| Environmental Energy Technologies | 53,052 | 45,763 | 52,004 | 58,795 | 82,493 |
| Engineering | 5,408 | 8,429 | 13,351 | 8,306 | 5,929 |
| EH&S | 7,360 | 5,493 | 3,490 | 3,270 | 2,806 |
| Earth Sciences | 31,036 | 29,856 | 31,027 | 34,240 | 44,300 |
| Facilities | 31,492 | 12,244 | 17,076 | 43,839 | 64,299 |
| Genomics | 9,733 | 10,437 | 8,731 | 6,208 | 5,994 |
| Genomics - JGI | 43,105 | 45,461 | 50,839 | 51,135 | 77,375 |
| Information Technology (a) | 3,852 | 3,391 | 3,634 | 3,100 | 3,380 |
| Life Sciences | 47,788 | 51,929 | 56,872 | 59,835 | 62,290 |
| Materials Sciences | 40,048 | 50,657 | 55,835 | 63,386 | 72,722 |
| Nuclear Science | 26,501 | 28,098 | 26,774 | 33,566 | 34,598 |
| Physical Biosciences | 29,167 | 25,228 | 44,219 | 52,015 | 66,258 |
| Physics | 26,978 | 30,373 | 29,984 | 32,139 | 44,751 |
| Lab Directorate/Other | 752 | 730 | 858 | 903 | 1,112 |
| Other (b) | (1,060) | (947) | (880) | 58 | 88 |
| **DIVISION TOTAL** | **517,155** | **516,382** | **589,499** | **647,749** | **811,062** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

(b) Primarily Work for Other charge to offset Safeguards and Security activities FY 2006 - FY2008. In FY2009, Safeguards and Security Work for Other charge was eliminated.

Table 1.2a

## Costs by Direct Funding Source by Division, FY2010 ($K)

| Division | FY 2010 | | | | | | |
|---|---|---|---|---|---|---|---|
| | DOE Operating | DOE Integrated Contractors Costs | WFO Federal | WFO Non-Federal | Operating Subtotal | Capital and Equipment | Total |
| Accelerator & Fusion Research | 20,545 | 828 | 1,791 | 1,251 | 24,415 | 14,760 | 39,175 |
| Advanced Light Source | 49,856 | 185 | 0 | 1,659 | 51,700 | 5,955 | 57,656 |
| Chemical Sciences | 14,198 | 12 | 1,906 | 47 | 16,163 | 1,552 | 17,715 |
| Computing Sciences (a) | 106,470 | 2,545 | 1,502 | 1,250 | 111,768 | 16,355 | 128,123 |
| Environmental Energy Technologies | 58,187 | 2,489 | 7,382 | 13,390 | 81,448 | 1,045 | 82,493 |
| Engineering | 221 | 977 | 2,770 | 1,152 | 5,120 | 808 | 5,929 |
| EH&S | 2,806 | 0 | - | - | 2,806 | - | 2,806 |
| Earth Sciences | 30,766 | 1,345 | 3,325 | 8,582 | 44,017 | 283 | 44,300 |
| Facilities | 20,275 | - | - | - | 20,275 | 44,023 | 64,299 |
| Genomics | 542 | - | 4,183 | 1,270 | 5,994 | - | 5,994 |
| Genomics - JGI | 70,087 | - | 121 | 1,555 | 71,762 | 5,612 | 77,375 |
| Information Technology (a) | 2,687 | - | - | 86 | 2,774 | 606 | 3,380 |
| Life Sciences | 10,558 | - | 40,663 | 10,151 | 61,372 | 919 | 62,290 |
| Materials Sciences | 53,532 | 191 | 2,288 | 5,871 | 61,882 | 10,840 | 72,722 |
| Nuclear Science | 20,564 | 293 | 3,255 | 2,380 | 26,492 | 8,106 | 34,598 |
| Physical Biosciences | 51,004 | 942 | 4,433 | 6,180 | 62,560 | 3,699 | 66,258 |
| Physics | 28,840 | 1,091 | 149 | 1,359 | 31,439 | 13,311 | 44,751 |
| Lab Directorate/Other | 1,092 | 19 | - | - | 1,111 | - | 1,112 |
| Other | - | 88 | - | - | 88 | - | 88 |
| **DIVISION TOTAL** | **542,228** | **11,007** | **73,768** | **56,184** | **683,187** | **127,875** | **811,062** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

Table 1.2b

## Costs By Direct Funding Source by Division, FY2009 ($K)

| Division | FY 2009 | | | | | | |
|---|---|---|---|---|---|---|---|
| | DOE Operating | DOE Integrated Contractors Costs | WFO Federal | WFO Non-Federal | Operating Subtotal | Capital and Equipment | Total |
| Accelerator & Fusion Research | 20,258 | 843 | 1,578 | 611 | 23,290 | 4,849 | 28,139 |
| Advanced Light Source | 45,784 | 38 | 0 | 806 | 46,628 | 3,034 | 49,662 |
| Chemical Sciences | 13,936 | 63 | 638 | 76 | 14,713 | 980 | 15,694 |
| Computing Sciences (a) | 88,264 | 2,153 | 2,004 | 1,347 | 93,767 | 9,694 | 103,461 |
| Environmental Energy Technologies | 36,375 | 2,992 | 5,631 | 12,220 | 57,218 | 1,577 | 58,795 |
| Engineering | 2,995 | 779 | 1,225 | 206 | 5,205 | 3,101 | 8,306 |
| EH&S | 3,270 | 0 | 0 | 0 | 3,270 | - | 3,270 |
| Earth Sciences | 23,618 | 1,579 | 3,055 | 5,101 | 33,353 | 887 | 34,240 |
| Facilities | 9,391 | - | - | - | 9,391 | 34,448 | 43,839 |
| Genomics | 2,787 | - | 3,291 | 130 | 6,208 | - | 6,208 |
| Genomics - JGI | 46,567 | - | 349 | 1,275 | 48,192 | 2,943 | 51,135 |
| Information Technology (a) | 2,324 | - | - | 49 | 2,373 | 726 | 3,100 |
| Life Sciences | 13,178 | - | 39,023 | 7,165 | 59,367 | 469 | 59,835 |
| Materials Sciences | 48,000 | 232 | 940 | 7,490 | 56,663 | 6,723 | 63,386 |
| Nuclear Science | 18,909 | 176 | 2,906 | 3,510 | 25,501 | 8,065 | 33,566 |
| Physical Biosciences | 42,366 | 1,034 | 3,699 | 4,611 | 51,709 | 306 | 52,015 |
| Physics | 23,160 | 1,067 | 415 | 215 | 24,857 | 7,283 | 32,139 |
| Lab Directorate/Other | 861 | - | - | 41 | 903 | - | 903 |
| Other | - | 58 | - | - | 58 | - | 58 |
| **DIVISION TOTAL** | **442,043** | **11,015** | **64,754** | **44,854** | **562,665** | **85,084** | **647,749** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

Table 1.2c

## Costs By Direct Funding Source by Division, FY2008 ($K)

| Division | FY 2008 | | | | | | |
|---|---|---|---|---|---|---|---|
| | DOE Operating | DOE Integrated Contractors Costs | WFO Federal | WFO Non-Federal | Operating Subtotal | Capital and Equipment | Total |
| Accelerator & Fusion Research | 19,426 | 1,514 | 1,441 | 799 | 23,180 | 2,862 | 26,042 |
| Advanced Light Source | 44,552 | 7 | 0 | 865 | 45,424 | 6,084 | 51,508 |
| Chemical Sciences | 14,236 | 75 | 599 | 79 | 14,990 | 2,012 | 17,002 |
| Computing Sciences (a) | 87,106 | 2,895 | 1,464 | 1,227 | 92,693 | 8,440 | 101,133 |
| Environmental Energy Technologies | 30,890 | 1,513 | 5,701 | 12,797 | 50,901 | 1,103 | 52,004 |
| Engineering | 2,814 | 213 | 322 | 516 | 3,865 | 9,485 | 13,351 |
| EH&S | 3,490 | - | - | - | 3,490 | - | 3,490 |
| Earth Sciences | 21,996 | 2,171 | 1,339 | 4,681 | 30,186 | 841 | 31,027 |
| Facilities | 4,174 | - | - | - | 4,174 | 12,902 | 17,076 |
| Genomics | 2,522 | - | 6,043 | 34 | 8,599 | 132 | 8,731 |
| Genomics - JGI | 45,068 | 301 | 357 | 945 | 46,671 | 4,168 | 50,839 |
| Information Technology (a) | 2,455 | - | - | 45 | 2,500 | 1,134 | 3,634 |
| Life Sciences | 11,452 | 20 | 36,844 | 6,876 | 55,191 | 1,680 | 56,872 |
| Materials Sciences | 42,030 | 123 | 1,004 | 7,238 | 50,396 | 5,439 | 55,835 |
| Nuclear Science | 17,280 | 90 | 2,296 | 3,533 | 23,199 | 3,575 | 26,774 |
| Physical Biosciences | 33,778 | 515 | 6,071 | 3,761 | 44,126 | 93 | 44,219 |
| Physics | 22,481 | 791 | 715 | 353 | 24,341 | 5,644 | 29,984 |
| Lab Directorate/Other | 743 | - | - | 115 | 858 | - | 858 |
| Other (b) | (947) | 68 | - | - | (880) | - | (880) |
| **DIVISION TOTAL** | **405,548** | **10,296** | **64,195** | **43,864** | **523,904** | **65,595** | **589,499** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

(b) Primarily Work for Other charge to offset Safeguards and Security activities.

Table 1.2d

## Costs By Direct Funding Source by Division, FY2007 ($K)

| Division | FY 2007 | | | | | | |
|---|---|---|---|---|---|---|---|
| | DOE Operating | DOE Integrated Contractors Costs | WFO Federal | WFO Non-Federal | Operating Subtotal | Capital and Equipment | Total |
| Accelerator & Fusion Research | 20,818 | 660 | 2,662 | 1,469 | 25,609 | 2,490 | 28,099 |
| Advanced Light Source | 42,453 | 13 | 0 | 809 | 43,275 | 5,632 | 48,906 |
| Chemical Sciences | 12,457 | 0 | 704 | 115 | 13,276 | 1,601 | 14,877 |
| Computing Sciences (a) | 67,615 | 2,902 | 1,376 | 1,202 | 73,096 | 4,259 | 77,355 |
| Environmental Energy Technologies | 24,583 | 1,596 | 6,549 | 12,406 | 45,135 | 628 | 45,763 |
| Engineering | 3,086 | 144 | 428 | 580 | 4,238 | 4,192 | 8,429 |
| EH&S | 5,397 | - | - | - | 5,397 | 96 | 5,493 |
| Earth Sciences | 17,466 | 6,486 | 1,838 | 3,886 | 29,676 | 180 | 29,856 |
| Facilities | 1,772 | - | - | - | 1,772 | 10,473 | 12,244 |
| Genomics | 2,546 | - | 7,739 | 88 | 10,373 | 64 | 10,437 |
| Genomics - JGI | 40,337 | 1,843 | 371 | 1,338 | 43,890 | 1,572 | 45,461 |
| Information Technology (a) | 2,384 | - | - | - | 2,384 | 1,007 | 3,391 |
| Life Sciences | 10,033 | 125 | 33,766 | 7,082 | 51,006 | 923 | 51,929 |
| Materials Sciences | 39,670 | 12 | 1,222 | 5,292 | 46,196 | 4,461 | 50,657 |
| Nuclear Science | 15,582 | 36 | 2,563 | 7,016 | 25,198 | 2,900 | 28,098 |
| Physical Biosciences | 12,676 | 386 | 7,580 | 4,135 | 24,777 | 451 | 25,228 |
| Physics | 19,573 | 474 | 485 | 335 | 20,868 | 9,505 | 30,373 |
| Lab Directorate/Other | 730 | - | - | - | 730 | - | 730 |
| Other (b) | (1,018) | 70 | - | - | (947) | - | (947) |
| **DIVISION TOTAL** | **338,161** | **14,747** | **67,284** | **45,755** | **465,947** | **50,435** | **516,382** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

(b) Primarily Work for Other charge to offset Safeguards and Security activities.

Table 1.2e

## Costs By Direct Funding Source by Division, FY2006 ($K)

| Division | FY 2006 | | | | | | |
|---|---|---|---|---|---|---|---|
| | DOE Operating | DOE Integrated Contractors Costs | WFO Federal | WFO Non Federal | Operating Subtotal | Capital and Equipment | Total |
| Accelerator & Fusion Research | 18,506 | 499 | 2,054 | 3,049 | 24,108 | 1,487 | 25,595 |
| Advanced Light Source | 36,269 | 180 | 0 | 928 | 37,377 | 6,803 | 44,180 |
| Chemical Sciences | 11,440 | 12 | 101 | 70 | 11,623 | 931 | 12,554 |
| Computing Sciences (a) | 67,768 | 4,463 | 3,129 | 489 | 75,849 | 3,765 | 79,614 |
| Environmental Energy Technologies | 29,091 | 1,597 | 6,991 | 14,522 | 52,201 | 851 | 53,052 |
| Engineering | 1,530 | 479 | 808 | 798 | 3,615 | 1,793 | 5,408 |
| EH&S | 6,469 | 0 | 0 | 0 | 6,469 | 890 | 7,360 |
| Earth Sciences | 17,932 | 6,000 | 2,777 | 3,601 | 30,310 | 727 | 31,036 |
| Facilities | 3,006 | 6 | - | - | 3,011 | 28,481 | 31,492 |
| Genomics | 1,759 | - | 7,175 | 141 | 9,075 | 658 | 9,733 |
| Genomics - JGI | 35,543 | 1,171 | 1,713 | 2,410 | 40,837 | 2,268 | 43,105 |
| Information Technology (a) | 2,678 | - | - | - | 2,678 | 1,175 | 3,852 |
| Life Sciences | 11,153 | 5 | 29,941 | 6,607 | 47,707 | 81 | 47,788 |
| Materials Sciences | 30,688 | 38 | 1,327 | 5,233 | 37,287 | 2,761 | 40,048 |
| Nuclear Science | 15,536 | 74 | 1,885 | 7,423 | 24,918 | 1,583 | 26,501 |
| Physical Biosciences | 12,412 | 652 | 10,606 | 4,369 | 28,039 | 1,128 | 29,167 |
| Physics | 15,626 | 684 | 942 | 673 | 17,926 | 9,052 | 26,978 |
| Lab Directorate/Other | 754 | (2) | - | - | 752 | - | 752 |
| Other (b) | (887) | - | - | - | (887) | (173) | (1,060) |
| **DIVISION TOTAL** | **317,272** | **15,859** | **69,449** | **50,312** | **452,892** | **64,262** | **517,155** |

Note: Minor variances may occur due to rounding.

(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

(b) Primarily Work for Other charge to offset Safeguards and Security activities. In FY2006 LDRD Equipment is indirectly funded.

Table 1.3

## Indirect Budget Costs by Division, FY2010 ($K)

| Division | Distributed Support Costs | | | Institutional Costs | | | | | | Total (a) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Org. Burden | Service Centers (b) | Other (c) | LDRD | IGPP | G&A | Procurement Burden | Site Support | Travel Burden | |
| Accelerator & Fusion Research | 1,649 | 162 | 271 | 2,984 | - | - | - | - | - | 5,067 |
| Advanced Light Source | 2,189 | - | - | 2,414 | - | - | - | - | - | 4,603 |
| Chief Financial Officer Organization | - | - | - | - | - | 8,546 | 8,550 | - | 1,726 | 18,822 |
| Chemical Sciences | 1,048 | - | - | 1,008 | - | - | - | - | - | 2,056 |
| Computing Sciences | 5,590 | - | - | 1,973 | - | - | - | - | - | 7,564 |
| Environmental Energy Technologies | 4,420 | 1,496 | - | 1,188 | - | - | - | - | - | 7,104 |
| Engineering | 4,738 | 1,497 | - | 365 | - | 1,151 | - | 1,355 | - | 9,106 |
| EH&S | - | - | - | - | - | - | - | 25,374 | - | 25,374 |
| Earth Sciences | 3,452 | - | - | 1,800 | - | - | - | 211 | - | 5,463 |
| Facilities | 4,172 | 10,871 | - | - | - | - | 2,406 | 38,255 | - | 55,703 |
| Genomics | 449 | - | - | - | - | - | - | - | - | 449 |
| Genomics - JGI | - | - | - | 547 | - | - | - | - | - | 547 |
| Information Technology | 3,102 | 6,896 | - | - | - | 15,493 | 39 | 9,082 | - | 34,613 |
| Lab Directorate | - | - | - | - | - | 11,510 | - | - | - | 11,510 |
| Life Sciences | 5,497 | 550 | - | 2,522 | - | - | - | - | - | 8,569 |
| Materials Sciences | 3,649 | 234 | - | 2,217 | - | - | - | - | - | 6,100 |
| Nuclear Science | 1,664 | - | - | 961 | - | - | - | - | - | 2,625 |
| ALD for Operations | - | 4,392 | - | - | 5,147 | 10,732 | - | 11,958 | - | 32,229 |
| Physical Biosciences | 2,645 | 3,872 | - | 1,396 | - | - | - | - | - | 7,912 |
| Physics | 1,565 | - | - | 1,180 | - | - | - | - | - | 2,744 |
| Other (d) | - | - | - | - | - | 7,112 | - | - | - | 7,112 |
| **DIVISION TOTAL** | **45,829** | **29,970** | **271** | **20,553** | **5,147** | **54,545** | **10,996** | **86,234** | **1,726** | **255,270** |

Note: Minor variances may occur due to rounding.

(a) Summation of indirect budget costs provided only to show magnitude of dollars being managed and does not equate to total indirect costs since there are overlaps between indirect budgets. For example, some organization burden costs are included in G&A and Recharges.

(b) Service Centers includes recharge cost centers that close to B&R YN01 (project type OHRCH) only and GSRA pass through cost.

(c) Includes: LBNL's Office of Homeland Security (formerly known as Nuclear Non-Proliferation).

(d) Includes: UC Management Fee (General Laboratory).

Table 1.4

## Average FTE Breakdown by Division, FY2010 ($K)

| Division | Direct funded FTEs | | | | Indirect Funded FTEs | | | | Total FTEs |
|---|---|---|---|---|---|---|---|---|---|
| | DOE Operating (a) | WFO (b) | Capital & Equipment | Direct Funded Total | Org. Burden | Service Centers (c) | Operations Overhead (d) | Indirect Funded Total | |
| Accelerator & Fusion Research | 73.4 | 8.5 | 30.6 | 112.5 | 10.1 | 0.5 | 10.6 | 21.2 | 133.7 |
| Advanced Light Source | 176.9 | 0.7 | 13.0 | 190.6 | 14.6 | - | 10.9 | 25.6 | 216.1 |
| Chief Financial Officer Organization | 0.0 | - | - | 0.0 | - | - | 144.1 | 144.1 | 144.1 |
| Chemical Sciences | 62.9 | 4.1 | 0.6 | 67.6 | 7.0 | - | 4.9 | 11.9 | 79.4 |
| Computing Sciences | 172.2 | 8.0 | - | 180.3 | 39.8 | - | 8.8 | 48.6 | 228.9 |
| Environmental Energy Technologies | 169.5 | 68.1 | - | 237.6 | 29.8 | 10.4 | 5.7 | 45.9 | 283.5 |
| Engineering | 3.6 | 9.8 | 1.4 | 14.9 | 26.2 | 8.6 | 10.7 | 45.5 | 60.4 |
| EH&S | 3.7 | - | - | 3.7 | - | - | 120.1 | 120.1 | 123.8 |
| Earth Sciences | 102.4 | 37.9 | 0.0 | 140.4 | 16.6 | - | 7.3 | 23.9 | 164.3 |
| Facilities | 5.9 | - | 21.7 | 27.6 | 24.1 | 4.9 | 164.7 | 193.7 | 221.3 |
| Genomics | 2.3 | 19.1 | - | 21.5 | 3.1 | - | 1.9 | 5.0 | 26.5 |
| Genomics - JGI | 184.8 | 5.9 | - | 190.8 | 0.0 | - | 1.1 | 1.1 | 191.9 |
| Information Technology | 6.1 | 0.0 | - | 6.1 | 15.5 | 25.9 | 102.6 | 144.0 | 150.1 |
| Lab Directorate | 0.9 | - | - | 0.9 | - | - | 54.8 | 54.8 | 55.7 |
| Life Sciences | 43.1 | 166.0 | - | 209.1 | 42.7 | 3.9 | 9.3 | 55.9 | 265.0 |
| Materials Sciences | 233.7 | 36.4 | 3.0 | 273.1 | 21.6 | 1.4 | 14.2 | 37.2 | 310.3 |
| Nuclear Science | 81.8 | 20.0 | 7.9 | 109.7 | 11.2 | - | 4.1 | 15.2 | 124.9 |
| ALD for Operations | 2.0 | - | - | 2.0 | - | 11.6 | 89.1 | 100.8 | 102.7 |
| Physical Biosciences | 152.7 | 37.6 | 0.1 | 190.4 | 20.2 | 0.6 | 9.5 | 30.3 | 220.7 |
| Physics | 87.6 | 5.0 | 11.9 | 104.4 | 10.6 | - | 4.4 | 15.0 | 119.4 |
| **DIVISION TOTAL** | **1,565.7** | **427.1** | **90.1** | **2,082.9** | **293.1** | **67.7** | **779.1** | **1,139.9** | **3,222.8** |

Notes:
- Minor variances may occur due to rounding.
- FTEs are calculated based on translating labor hours charged into work-months and dividing by division's Paid Leave Factor (PLF).
- FTE calculation does not include Contract Labor or Campus Labor.
- Total FTE excludes 39.3 FTEs from "Funds Held for Others Costs" projects (see Table 1.5 for examples).

(a) DOE Operating includes DOE Integrated Contractors and Fellowships.
(b) WFO includes CRADA.
(c) Service Centers includes recharge cost centers that close to B&R YN01 (project type OHRCH) only.
(d) Operations Overhead includes: G&A, Site Support, LDRD, Institutional General Plant Projects (IGPP), Procurement, Travel, Payroll Burden, and LBNL's Office of Homeland Security.

Table 1.5

## Funds Held for Others Cost Trends, FY2006 - FY2010 ($K)

| Funding Source | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 |
|---|---|---|---|---|---|
| Royalty | 1,809 | 2,031 | 1,678 | 1,509 | 2,153 |
| Contractor-Funded Institutional Supporting Research and Development | 418 | 2,537 | 2,940 | 2,839 | 2,909 |
| Inter-Location Appointments (ILA) | 1,402 | 2,089 | 2,960 | 3,478 | 3,233 |
| UC Construction Projects | - | 625 | 1,126 | 1,170 | 358 |
| University of California Directed Research and Development (UCDRD) | 165 | - | - | - | - |
| Other | 79 | 44 | 303 | 98 | 170 |
| **TOTAL** | **3,873** | **7,326** | **9,007** | **9,094** | **8,823** |
| Note: Minor variances may occur due to rounding. | | | | | |

## 2. Direct Funding — DOE and Reimbursable Work

## Direct Funding — DOE and Reimbursable Work

### Total Laboratory Funding – $61.3M Decrease

Total funding decreased 7%, to $846.9M in FY2010. This was primarily due to the ramp down impact of (one-time) American Recovery and Reinvestment Act (ARRA) funding level year over year of $117.6M. Non-ARRA funds increased by $56.3M primarily due to increased funding from the DOE Office of Energy Efficiency and Renewable Energy (EERE) and non-DOE sponsors.

### DOE Operating and Maintenance (O&M) Funding – $77.5M Decrease

O&M funding provides for the execution of research and development efforts, purchase of equipment, accelerator improvement projects and construction of general plant projects. The decrease in ARRA funding drove the net decrease.

Office of Science

Office of Science (SC) O&M funding dropped $156.1M in FY2010 due to lower levels of ARRA funding, notably in the following areas:

- Advanced Scientific Computing Research (ASCR) program in the Advanced Network Initiative and the Magellan Cloud Computing Projects.
- Office of Science's Science Laboratories Infrastructure (SLI) program related to the Building 51/Bevatron Demolition project and General Purpose Plant (GPP) projects.
- Office of Science's High Energy Physics program associated with Advanced Plasma Acceleration Facility (BELLA).
- Basic Energy Sciences (BES) Advanced Light Source projects.
- Fusion Energy Sciences (FES) HEDLP NDCX-II project.

Energy Efficiency and Renewable Energy (EERE)

While Office of Science funding declined in comparison to FY2009, the EERE program increased LBNL funding by $63.3M. In FY2010, EERE provided significant ARRA funds and increased non-ARRA funds reflecting DOE support of LBNL's Carbon Cycle 2.0 initiative. This initiative takes a multidisciplinary approach to develop ways to restore balance in Earth's carbon cycle.

Significant FY2010 EERE funding increases were in the following areas:

- Advanced Biofuels Process Development Unit (PDU) – a Bioenergy Research Center Collaboration User Facility – which will translate technologies developed by the Joint Bioenergy Institute (JBEI) and other Bioenergy Research Centers (BRCs) beyond laboratory scale to facilitate commercialization.
- Joint Center for Artificial Photosynthesis (JCAP).
- Building Technologies program related to:
    - Integrated Systems Research in support of the Commercial Buildings Initiative
    - Residential Buildings projects
    - Building Technologies Emerging Technologies Research and Development.

Other DOE

Various other DOE programs provided a net O&M funding increase of $15.3M including:

- The Advanced Research Projects Agency-Energy (ARPA-E) program primarily for research on carbon dioxide capture and biofuel production from carbon dioxide.
- The Fossil Energy program for projects supporting carbon capture, storage and reduction.

### DOE Construction Funding – $6.4M Decrease

Line Item construction funding primarily decreased by SC and EERE changes.

| Line Item Construction ($M) | FY2009 | FY2010 | Change |
|---|---|---|---|
| SC ARRA - Advanced LIght Source (ALS) User Support Building | 14.5 | - | (14.5) |
| SC ARRA - Phase 2 of Seismic Safety Building Upgrade | 15.0 | - | (15.0) |
| EERE ARRA - National User Test Bed Facility* | - | 15.7 | 15.7 |
| Non-ARRA Science - Phase 2 of Seismic Safety Building Upgrade | - | 7.4 | 7.4 |
| **Total Line Item Construction** | **29.5** | **23.1** | **(6.4)** |

*The National User Test Bed Facility allows LBNL to address key challenges for existing low energy and net-zero energy (NZE) buildings.

## Direct Funding — DOE and Reimbursable Work Continued

### Other Direct Operating Funding [1] – Increased $22.6M

The funding increase was split between Other Federal Agencies and Non-Federal sponsors. Funding for Cooperative Research and Development Agreements (CRADAs) and other DOE Integrated Contractors was essentially flat.

Other Federal Agencies increased $12.4M primarily driven by the following major changes:

- Funding deobligations completed in FY2009 as a result of the Legacy Balance Clean-up Project were not repeated in FY2010.
- NIH awarded LBNL ARRA funds to the Chemical Sciences, Genomics, Life Sciences, and Physical Biosciences Divisions for health research in the following areas, but not limited to: cancer, radiation exposure, neurodegenerative and coronary artery diseases.

Non-Federal Sponsors increased $10.2M based on the following major changes:

- The State and Local Governments category increased due to additional California Energy Commission (CEC) funding to the Environmental Energy Technologies Division (EETD) for work related to Indoor and Outdoor Environmental Quality and Buildings Energy Efficiency.
- The Universities and Institutes category increased primarily from three new awards:
  - The Life Sciences Division from Stanford University funded by the Biomedical Advanced Research and Development Authority (BARDA) for research related to radiation exposure.
  - The Life Sciences Division from the University of California, Los Angeles, funded by the Stand Up To Cancer initiative for breast cancer research.
  - The Joint Genome Institute (JGI) from the University of Florida for the first phase of the International Citrus Genome Project.

**Data Sources for Tables in this section are as follows:**

| Data Type | Source |
|---|---|
| FY2010 Beginning Uncosted Obligations | Carryover Funding as provided in the LBNL final FY2009 Contract Modification (GSO) |
| FY2010 Funds | Budget Authority as provided in the LBNL contract modification for the fiscal year |
| FY2010 Costs | LBNL published Fiscal Year End Costs |
| FY2010 Ending Uncosted Obligations | DOE - Beginning Uncosted + Funds – Costs<br><br>WFO - The sum of FY2010 Beginning Uncosted, FY2010 Funds and FY2010 Costs for the "Other Direct Operating" categories does not equal FY2009 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include Bridge Funding, suspense items, and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1.9M). |

1. FY2010 ARRA National Institutes of Health and National Science Foundation awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. As a result, LBNL funding is based on cash payments and will continue to be obligated until the projects are complete. Although DOE obligated these awards as work for a Non-Federal entity, for reporting consistency with prior and future years all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

Table 2.1

## LBNL Funding Trends (BA) by Funding Source ($K)

| Funding Source | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 (a) |
|---|---|---|---|---|---|
| **DOE DIRECT OPERATING** | | | | | |
| Administrator for National Nuclear Security Administration | 6,045 | 5,387 | 5,179 | 5,863 | 7,082 |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 20,516 | 26,520 | 27,102 | 43,507 | 98,411 |
| Assistant Secretary for Environmental Management | 3,861 | 1,709 | - | 425 | 2,675 |
| Assistant Secretary for Fossil Energy | 7,017 | 6,328 | 8,124 | 10,668 | 13,750 |
| Assistant Secretary for Nuclear Energy | - | - | 788 | 825 | 1,545 |
| Assistant Secretary for Policy and International Affairs | 10 | (0) | 65 | 100 | 741 |
| Office of Civilian Radioactive Waste Management | 2,331 | 1,387 | - | 35 | (1) |
| Office of Electricity Delivery and Energy Reliability | 4,486 | 7,213 | 4,970 | 7,427 | 10,042 |
| Office of Energy and Threat | - | - | 65 | 300 | (65) |
| Office of Health Safety and Security | 611 | 564 | 413 | 385 | 150 |
| Office of Intelligence | - | - | - | - | - |
| Office of Science | 299,606 | 329,097 | 371,361 | 503,087 | 448,488 |
| Office of the Chief Financial Officer (ARPA-E Projects) | (1) | - | - | 28 | 5,297 |
| Office of the Chief Information Officer | (0) | - | - | - | 460 |
| Technical Analysis | - | (0) | - | - | - |
| **Total DOE Direct Operating** | **344,482** | **378,206** | **418,067** | **572,649** | **588,576** |
| **OTHER DIRECT OPERATING (b)** | | | | | |
| Work for Other Federal Agencies | 60,209 | 83,164 | 61,640 | 56,474 | 68,928 |
| Work for Non-Federal Sponsors (c) | 57,078 | 38,529 | 43,882 | 48,816 | 58,998 |
| Cooperative Research and Development Agreements | 633 | (1,419) | 539 | 505 | 482 |
| Work for Other DOE Integrated Contractors (d) | 15,859 | 14,747 | 10,296 | 11,015 | 11,007 |
| **Total Other Direct Operating** | **133,779** | **135,020** | **116,357** | **116,810** | **139,413** |
| **TOTAL OPERATING** | **478,260** | **513,226** | **534,424** | **689,458** | **727,989** |

Note: Minor variances may occur due to rounding.

Data Source: Budget Authority (BA) as provided in the LBNL final contract modification for the fiscal year.

(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA funds received were categorized as: Operating ($76,191K) and Plant and Equipment ($19,909K).
See Table 3.1 for details.

(b) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

(c) Includes funding for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

(d) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

*continued...*

Table 2.1

## LBNL Funding Trends (BA) by Funding Source ($K) Continued

| Funding Source | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 (a) |
|---|---|---|---|---|---|
| **DOE PLANT AND EQUIPMENT** | | | | | |
| Basic Equipment/Major Items of Equipment | | | | | |
| Administrator for National Nuclear Security Administration | 450 | 340 | 2,205 | 340 | - |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 345 | 496 | 1,097 | 65 | 8,482 |
| Assistant Secretary for Environmental Management | - | (0) | - | - | |
| Assistant Secretary for Fossil Energy | (8) | (0) | - | - | |
| Office of Electricity Delivery and Energy Reliability | - | - | - | - | |
| Office of Intelligence | - | - | - | - | |
| Office of Science | 33,211 | 41,243 | 58,836 | 132,728 | 53,902 |
| **Total Capital Equipment** | **33,998** | **42,079** | **62,138** | **133,133** | **62,384** |
| **General Plant Projects** | | | | | |
| Office of Science | 4,864 | 4,031 | 4,775 | 16,233 | 1,499 |
| **Total General Plant Projects** | **4,864** | **4,031** | **4,775** | **16,233** | **1,499** |
| **Accelerator Improvement Projects** | | | | | |
| Office of Science | 1,200 | 3,866 | 2,050 | 13,255 | 5,320 |
| **Total Accelerator Improvement Projects** | **1,200** | **3,866** | **2,050** | **13,255** | **5,320** |
| **Line-Item Construction** | | | | | |
| Administrator for National Nuclear Security Administration | - | (1) | - | - | - |
| Assistant Secretary for Energy Efficiency and Renewable Energy | - | - | - | - | 15,700 |
| Office of Science | 13,290 | 6,868 | 14,226 | 56,158 | 34,025 |
| **Total Line-Item Construction** | **13,290** | **6,867** | **14,226** | **56,158** | **49,725** |
| **TOTAL DOE PLANT AND CAPITAL EQUIPMENT** | **53,352** | **56,843** | **83,189** | **218,779** | **118,928** |
| | | | | | |
| **TOTAL LABORATORY** | **531,612** | **570,069** | **617,613** | **908,237** | **846,917** |

Note: Minor variances may occur due to rounding.
Data Source: Budget Authority (BA) as provided in the LBNL final contract modification for the fiscal year.
(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA funds received were categorized as: Operating ($76,191K) and Plant and Equipment ($19,909K).
See Table 3.1 for details.

Table 2.2

## LBNL Cost Trends by Funding Source ($K)

| Funding Source | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 (a) |
|---|---|---|---|---|---|
| **DOE DIRECT OPERATING** | | | | | |
| Administrator for National Nuclear Security Administration | 6,078 | 6,194 | 5,703 | 5,853 | 7,232 |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 22,337 | 18,050 | 24,059 | 28,387 | 57,400 |
| Assistant Secretary for Environmental Management | 3,603 | 2,293 | 242 | 341 | 1,969 |
| Assistant Secretary for Fossil Energy | 5,012 | 5,796 | 7,060 | 6,840 | 6,969 |
| Assistant Secretary for Nuclear Energy | - | - | 206 | 964 | 1,485 |
| Assistant Secretary for Policy and International Affairs | 4 | 6 | - | 66 | 96 |
| Office of Civilian Radioactive Waste Management | 3,000 | 1,154 | 2,078 | 222 | 39 |
| Office of Electricity Delivery and Energy Reliability | 5,761 | 4,339 | 4,242 | 6,015 | 7,353 |
| Office of Energy and Threat | - | - | - | - | 38 |
| Office of Health Safety and Security | 576 | 563 | 542 | 390 | 281 |
| Office of Intelligence | - | - | - | - | - |
| Office of Science | 270,841 | 299,767 | 361,416 | 392,951 | 459,035 |
| Office of the Chief Financial Officer (ARPA-E Projects) | - | - | - | 13 | 30 |
| Office of the Chief Information Officer | - | - | - | - | 299 |
| Technical Analysis | 59 | - | - | - | - |
| **Total DOE Direct Operating** | **317,272** | **338,161** | **405,548** | **442,043** | **542,228** |
| **OTHER DIRECT OPERATING (b)** | | | | | |
| Work for Other Federal Agencies | 69,449 | 67,284 | 64,195 | 64,754 | 73,768 |
| Work for Non-Federal Sponsors (c) | 49,670 | 45,627 | 43,412 | 44,604 | 55,399 |
| Cooperative Research and Development Agreements | 642 | 128 | 452 | 250 | 785 |
| Work for Other DOE Integrated Contractors | 15,859 | 14,747 | 10,296 | 11,015 | 11,007 |
| **Total Other Direct Operating (d)** | **135,620** | **127,786** | **118,355** | **120,622** | **140,959** |
| **TOTAL OPERATING** | **452,892** | **465,947** | **523,904** | **562,665** | **683,187** |

*continued...*

Table 2.2

## LBNL Cost Trends by Funding Source ($K) Continued

| Funding Source | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 (a) |
|---|---|---|---|---|---|
| **DOE PLANT AND EQUIPMENT:** | | | | | |
| **Basic Equipment/Major Items of Equipment** | | | | | |
| Administrator for National Nuclear Security Administration | 168 | 267 | 1,343 | 1,331 | 159 |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 312 | 319 | 763 | 1,070 | 870 |
| Assistant Secretary for Environmental Management | - | - | - | - | - |
| Assistant Secretary for Fossil Energy | 9 | - | - | - | - |
| Office of Electricity Delivery and Energy Reliability | - | - | - | - | - |
| Office of Intelligence | - | - | - | - | - |
| Office of Science | 32,243 | 37,242 | 47,907 | 46,645 | 80,815 |
| **Total Capital Equipment** | **32,733** | **37,828** | **50,013** | **49,045** | **81,844** |
| **General Plant Projects** | | | | | |
| Office of Science | 4,135 | 6,082 | 4,340 | 5,098 | 11,853 |
| **Total General Plant Projects** | **4,135** | **6,082** | **4,340** | **5,098** | **11,853** |
| **Accelerator Improvement Projects** | | | | | |
| Office of Science | 2,453 | 2,038 | 2,680 | 1,268 | 1,865 |
| **Total Accelerator Improvement Projects** | **2,453** | **2,038** | **2,680** | **1,268** | **1,865** |
| **Line-Item Construction** | | | | | |
| Administrator for National Nuclear Security Administration | - | - | - | - | - |
| Assistant Secretary for Energy Efficiency and Renewable Energy | - | - | - | - | 91 |
| Office of Science | 24,941 | 4,487 | 8,561 | 29,673 | 32,223 |
| **Total Line-item Construction** | **24,941** | **4,487** | **8,561** | **29,673** | **32,313** |
| **TOTAL DOE PLANT AND CAPITAL EQUIPMENT** | **64,262** | **50,435** | **65,595** | **85,084** | **127,875** |
| | | | | | |
| **TOTAL LABORATORY** | **517,155** | **516,382** | **589,499** | **647,749** | **811,062** |

Note: Minor variances may occur due to rounding.
Data Source: LBNL published Fiscal Year End Costs.

(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA costs were categorized as: Operating ($51,114K), Plant and Equipment ($53,201K).
See Table 3.2 for details.

(b) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

(c) Includes costs for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

(d) FY2010 Costs do not include various adjustments. Examples of these adjustments include bridge funding, suspense items and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872 K).

Table 2.3

## LBNL Funding and Costs by Funding Source ($K)

| Funding Source | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|
| **DOE DIRECT OPERATING** | | | | |
| Administrator for National Nuclear Security Administration | 3,125 | 7,082 | 7,232 | 2,975 |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 32,724 | 98,411 | 57,400 | 73,735 |
| Assistant Secretary for Environmental Management | 1,056 | 2,675 | 1,969 | 1,761 |
| Assistant Secretary for Fossil Energy | 13,030 | 13,750 | 6,969 | 19,810 |
| Assistant Secretary for Nuclear Energy | 444 | 1,545 | 1,485 | 504 |
| Assistant Secretary for Policy and International Affairs | 99 | 741 | 96 | 743 |
| Office of Civilian Radioactive Waste Management | 87 | (1) | 39 | 48 |
| Office of Electricity Delivery and Energy Reliability | 7,309 | 10,042 | 7,353 | 9,998 |
| Office of Energy and Threat | 365 | (65) | 38 | 262 |
| Office of Health Safety and Security | 149 | 150 | 281 | 18 |
| Office of Science | 229,408 | 448,488 | 459,035 | 218,861 |
| Office of the Chief Financial Officer (ARPA-E Projects) | 15 | 5,297 | 30 | 5,282 |
| Office of the Chief Information Officer | 0 | 460 | 299 | 161 |
| **Total DOE Direct Operating** | **287,810** | **588,576** | **542,228** | **334,158** |
| **OTHER DIRECT OPERATING (a)** | | | | |
| Work for Other Federal Agencies | 70,393 | 68,928 | 73,768 | 66,085 |
| Work for Non-Federal Sponsors (b) | 29,601 | 58,998 | 55,399 | 34,523 |
| Cooperative Research and Development Agreements | 596 | 482 | 785 | 310 |
| Work for Other DOE Integrated Contractors (c) | 0 | 11,007 | 11,007 | 0 |
| **Total Other Direct Operating (d)** | **100,591** | **139,413** | **140,959** | **100,918** |
| **TOTAL OPERATING** | **388,401** | **727,989** | **683,187** | **435,076** |

Note: Minor variances may occur due to rounding.

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

(b) Includes funding for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

(c) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

(d) The sum of FY2010 Beginning Uncosted Obligations and FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872 K).

*continued...*

Table 2.3

## LBNL Funding and Costs by Funding Source ($K) Continued

| Funding Source | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|
| **DOE PLANT AND EQUIPMENT** | | | | |
| **Basic Equipment/Major Items of Equipment** | | | | |
| Administrator for National Nuclear Security Administration | 227 | 0 | 159 | 68 |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 175 | 8,482 | 870 | 7,788 |
| Office of Science | 132,470 | 53,902 | 80,815 | 105,557 |
| **Total Capital Equipment** | **132,873** | **62,384** | **81,844** | **113,413** |
| **General Plant Projects** | | | | |
| Office of Science | 14,897 | 1,499 | 11,853 | 4,543 |
| **Total General Plant Projects** | **14,897** | **1,499** | **11,853** | **4,543** |
| **Accelerator Improvement Projects** | | | | |
| Office of Science | 14,964 | 5,320 | 1,865 | 18,419 |
| **Total Accelerator Improvement Projects** | **14,964** | **5,320** | **1,865** | **18,419** |
| **Line-Item Construction** | | | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 0 | 15,700 | 91 | 15,609 |
| Office of Science | 49,742 | 34,025 | 32,223 | 51,544 |
| **Total Line-item Construction** | **49,742** | **49,725** | **32,313** | **67,153** |
| **TOTAL DOE PLANT AND CAPITAL EQUIPMENT** | **212,476** | **118,928** | **127,875** | **203,529** |
| | | | | |
| **TOTAL LABORATORY (e)** | **600,877** | **846,917** | **811,062** | **638,604** |

Note: Minor variances may occur due to rounding.

(e) Includes American Recovery and Reinvestment Act (ARRA) funds and costs in FY2010:
Operating ($76,191K, $51,114K) and Plant and Equipment ($19,909K, $53,201K). See Table 3.1 and Table 3.2 for details.

Table 2.4

## FY2010 Funding and Costs by DOE Programs ($K)

| ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| DP12 | Science Campaign | 0 | 0 | 0 | 0 |
| DP15 | Advanced Simulation and Computing Campaign | 0 | 35 | 0 | 35 |
| FS21 | Cyber Security | 34 | 59 | 93 | 0 |
| NN20 | Nonproliferation And Verification Research And Development | 2,549 | 6,212 | 6,324 | 2,436 |
| NN40 | Nonproliferation and International Security | 229 | 776 | 558 | 447 |
| NN41 | Global Initiative for Proliferation Prevention | 313 | 0 | 257 | 56 |
| **Total Operating** | | **3,125** | **7,082** | **7,232** | **2,975** |
| | | | | | |
| **CAPITAL EQUIPMENT:** | | | | | |
| NN20 | Nonproliferation And Verification Research And Development | 227 | 0 | 159 | 68 |
| **Total Capital Equipment** | | **227** | **0** | **159** | **68** |
| | | | | | |
| **TOTAL ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION** | | **3,352** | **7,082** | **7,391** | **3,043** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4a

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF SCIENCE | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| AT50 | FES - Science | 448 | 4,868 | 4,532 | 783 |
| FS10 | Safeguards and Security - Science | 915 | 5,184 | 4,818 | 1,281 |
| KA11 | Proton Accelerator-Based Physics | 2,810 | 12,895 | 11,708 | 3,997 |
| KA12 | Electron Accelerator-Based Physics | 75 | 468 | 396 | 146 |
| KA13 | Non-Accelerator-Based Physics | 8,151 | 13,605 | 13,786 | 7,970 |
| KA14 | Theoretical Physics | 3,905 | 7,318 | 5,981 | 5,242 |
| KA15 | Advanced Technology R&D | 5,509 | 10,257 | 10,767 | 4,999 |
| KB01 | Medium Energy Physics | 0 | 28 | 12 | 16 |
| KB02 | Heavy-Ion Physics | 3,383 | 6,327 | 7,617 | 2,093 |
| KB03 | Nuclear Theory | 1,761 | 5,406 | 2,921 | 4,246 |
| KB04 | Low Energy Physics | 3,083 | 13,595 | 9,736 | 6,942 |
| KC02 | Materials Sciences and Engineering | 24,481 | 28,666 | 40,465 | 12,683 |
| KC03 | Chemical Sciences, Geosciences, and Energy Biosciences | 11,895 | 29,175 | 26,971 | 14,100 |
| KC04 | Scientific User Facilities | 0 | 73,173 | 61,399 | 11,774 |
| KG06 | Excess Facilities Disposition | 36,728 | 0 | 19,986 | 16,742 |
| KG08 | Safety-Related Corrective Actions | 4 | (4) | 0 | 0 |
| KJ01 | Mathematical, Information, And Computational Sciences | 1,610 | (0) | 1,332 | 278 |
| KJ04 | Mathematical, Computational, and Computer Sciences Research | 12,572 | 26,600 | 16,903 | 22,270 |
| KJ05 | High Performance Computing and Network Facilities | 65,463 | 80,686 | 85,086 | 61,064 |
| KL01 | Student Programs | 113 | 475 | 424 | 163 |
| KL02 | Educator Programs | 391 | 275 | 418 | 249 |
| KP11 | Life Sciences | 11,507 | 0 | 3,817 | 7,691 |
| KP12 | Climate Change Research | 2,722 | (0) | 1,890 | 831 |
| KP13 | Environmental Remediation | 509 | (5) | 257 | 247 |
| KP14 | Medical Applications and Measurement Science | 0 | (0) | 0 | 0 |
| KP15 | Biological Research | 31,310 | 4,320 | 30,828 | 4,802 |
| KP16 | Biological Systems Science | 0 | 113,485 | 90,555 | 22,930 |
| KP17 | Climate and Environmental Sciences | 0 | 11,691 | 6,389 | 5,302 |
| KX01 | Science Program Direction | 63 | 0 | 41 | 22 |
| **Total Operating** | | **229,408** | **448,488** | **459,035** | **218,861** |

*continued...*

Table 2.4a

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF SCIENCE | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **CAPITAL EQUIPMENT** | | | | | |
| AT50 | FES - Science | 10,615 | (1) | 4,082 | 6,532 |
| KA11 | Proton Accelerator-Based Physics (a) | 721 | 1,437 | 1,122 | 1,035 |
| KA13 | Non-Accelerator-Based Physics | 6,830 | 9,827 | 11,844 | 4,814 |
| KA15 | Advanced Technology R&D | 27,016 | 10,920 | 10,642 | 27,293 |
| KB02 | Heavy-Ion Physics | 2,529 | 5,107 | 4,188 | 3,448 |
| KB04 | Low Energy Physics | 8,418 | 4,418 | 3,545 | 9,291 |
| KC02 | Materials Sciences and Engineering | 23,389 | 4,607 | 12,634 | 15,362 |
| KC03 | Chemical Sciences, Geosciences, and Energy Biosciences | 3,649 | 2,455 | 2,958 | 3,146 |
| KC04 | Scientific User Facilities | 0 | 10,660 | 3,583 | 7,077 |
| KJ01 | Mathematical, Information, And Computational Sciences | 2,683 | 0 | 898 | 1,784 |
| KJ05 | High Performance Computing and Network Facilities | 31,388 | 4,200 | 15,457 | 20,131 |
| KP11 | Life Sciences | 71 | (36) | 14 | 21 |
| KP12 | Climate Change Research | 290 | (0) | 67 | 223 |
| KP13 | Environmental Remediation | 2 | (2) | 0 | 0 |
| KP15 | Biological Research | 14,871 | (4,790) | 8,879 | 1,202 |
| KP16 | Biological Systems Science | 0 | 4,802 | 902 | 3,900 |
| KP17 | Climate and Environmental Sciences | 0 | 298 | 0 | 298 |
| **Total Capital Equipment** | | **132,470** | **53,902** | **80,815** | **105,557** |

Note: Minor variances may occur due to rounding.
(a) Includes Institutional General Purpose Equipment activity.

*continued...*

Table 2.4a

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF SCIENCE | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **GENERAL PLANT PROJECTS** | | | | | |
| KA11 | Proton Accelerator-Based Physics | 131 | 0 | 130 | 2 |
| KC02 | Materials Sciences and Engineering | 150 | 0 | 146 | 4 |
| KC04 | Scientific User Facilities | 0 | 1,499 | 0 | 1,499 |
| KG09 | General Plant Projects | 14,616 | (0) | 11,577 | 3,039 |
| KP11 | Life Sciences | 0 | (0) | 0 | 0 |
| **Total General Plant Projects** | | **14,897** | **1,499** | **11,853** | **4,543** |
| **ACCELERATOR IMPROVEMENT PROJECTS** | | | | | |
| KB04 | Low Energy Physics | 1,769 | 0 | 594 | 1,175 |
| KC02 | Materials Sciences and Engineering | 13,195 | 0 | 1,264 | 11,931 |
| KC04 | Scientific User Facilities | 0 | 5,320 | 7 | 5,313 |
| **Total Accelerator Improvement Projects** | | **14,964** | **5,320** | **1,865** | **18,419** |
| **LINE-ITEM CONSTRUCTION** | | | | | |
| 39KC | Basic Energy Sciences | 19,369 | (1) | 17,626 | 1,741 |
| 39KG | Science Laboratories Infrastructure | 30,373 | 34,026 | 14,597 | 49,803 |
| **Total Line-Item Construction** | | **49,742** | **34,025** | **32,223** | **51,544** |
| | | | | | |
| **TOTAL OFFICE OF SCIENCE** | | **441,482** | **543,233** | **585,791** | **398,925** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4b

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| BM01 | Biomass/Biofuels Energy Systems | 336 | 13,124 | 6,651 | 6,809 |
| BT01 | Residential Buildings | 453 | 9,751 | 3,157 | 7,047 |
| BT02 | Commercial Buildings Integration | 882 | 11,655 | 2,561 | 9,976 |
| BT03 | Emerging Technologies | 1,854 | 9,867 | 7,148 | 4,573 |
| BT04 | Equipment Standards and Analysis | 2,309 | 5,850 | 5,057 | 3,102 |
| BT05 | Technical Program Management Support | 9 | 0 | 2 | 7 |
| BT07 | Technology Validation and Market Distribution | 182 | 500 | 121 | 561 |
| EB21 | Solar Energy | 1,041 | 5,790 | 690 | 6,142 |
| EB25 | Wind Energy Systems | 689 | 590 | 837 | 442 |
| EB36 | Facilities and Infrastructure | 0 | 200 | 195 | 5 |
| EB40 | Geothermal | 7,520 | 6,514 | 4,827 | 9,207 |
| EB42 | Hydrogen Research R&D | 3,406 | 3,915 | 4,627 | 2,694 |
| EB51 | Energy Efficiency and Renewable Energy Program Direction | 171 | 4,121 | 184 | 4,108 |
| EB55 | Department Energy Management Program | 50 | 0 | 16 | 34 |
| EB57 | Energy Efficiency and Renewable Energy (EERE) Program Support | 18 | 2,105 | 294 | 1,830 |
| ED18 | Industries Of The Future (Specific) | 73 | (0) | 61 | 12 |
| ED19 | Industries Of The Future (Crosscutting) | 2,040 | 2,876 | 2,870 | 2,047 |
| ED22 | Technical Program Management Support | 37 | 0 | 20 | 17 |
| EH25 | Planning, Evaluation and Analysis | 0 | (0) | 0 | 0 |
| EL17 | Federal Energy Management Program | 3,232 | 3,744 | 4,496 | 2,480 |
| EO01 | Distributed Energy Resources | 0 | (0) | (0) | 0 |
| HI03 | Stack Component R&D | 0 | (0) | 0 | 0 |
| VT02 | Technology Integration | 499 | 196 | 19 | 676 |
| VT03 | Hybrid and Electric Propulsion | 0 | (0) | 0 | 0 |
| VT05 | Materials Technology | 100 | 217 | 158 | 159 |
| VT11 | Hybrid Electric Systems | 5,224 | 14,900 | 12,821 | 7,303 |
| WI01 | Intergovernmental Activities | 12 | 0 | 12 | 0 |
| WI03 | State Energy Program (Grants) | 438 | 500 | 44 | 894 |
| WI04 | Other State Energy Activities | 365 | 0 | 121 | 244 |
| WI05 | Gateway Deployment | 105 | (1) | 26 | 77 |
| WI06 | Intergovernmental Activities | 1,671 | (0) | 386 | 1,285 |
| WI07 | Weatherization Assistance Program | 7 | 2,000 | 0 | 2,007 |
| **Total Operating** | | **32,724** | **98,411** | **57,400** | **73,735** |

*continued...*

Table 2.4b

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **CAPITAL EQUIPMENT** | | | | | |
| BM01 | Biomass/Biofuels Energy Systems | 0 | 4,700 | 0 | 4,700 |
| BT03 | Emerging Technologies | 1 | (1) | 0 | 0 |
| EB21 | Solar Energy | 0 | 2,209 | 0 | 2,209 |
| EB42 | Hydrogen Research R&D | 48 | 575 | 505 | 118 |
| VT03 | Hybrid and Electric Propulsion | 10 | (1) | (0) | 9 |
| VT11 | Hybrid Electric Systems | 117 | 1,000 | 365 | 752 |
| **Total Capital Equipment** | | **175** | **8,482** | **870** | **7,788** |
| **LINE-ITEM CONSTRUCTION** | | | | | |
| 39EB | Facilities and Infrastructure | 0 | 15,700 | 91 | 15,609 |
| **Total Line-item Construction** | | **0** | **15,700** | **91** | **15,609** |
| | | | | | |
| **TOTAL ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY** | | **32,899** | **122,594** | **58,360** | **97,132** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4c

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| TD50 | Research and Development | 2,481 | 6,685 | 3,893 | 5,272 |
| TD52 | Electricity Restructuring | 100 | (0) | 100 | 0 |
| TD54 | OPERATIONS & ANALYSIS | 4,727 | 3,358 | 3,360 | 4,725 |
| **Total Operating** | | **7,309** | **10,042** | **7,353** | **9,998** |
| **TOTAL OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY** | | **7,309** | **10,042** | **7,353** | **9,998** |
| Note: Minor variances may occur due to rounding. | | | | | |

| ASSISTANT SECRETARY FOR FOSSIL ENERGY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| AA15 | Advanced Research | 15 | 21 | 9 | 27 |
| AA20 | Central Systems | 1,795 | 1,313 | 1,236 | 1,871 |
| AA25 | Fuel Cells | 188 | 300 | 239 | 249 |
| AA30 | Sequestration | 8,362 | 9,716 | 3,825 | 14,253 |
| AB05 | Natural Gas Technologies | 628 | 495 | 710 | 413 |
| AC10 | Oil Technology | 1,184 | (0) | 93 | 1,091 |
| AD20 | Contractual Services And Supplies | 201 | 0 | 45 | 156 |
| AE10 | Advanced Metallurgical Processes | 1 | 0 | 0 | 1 |
| AY05 | Clean Coal Power Initiative | 645 | (0) | 254 | 391 |
| BD00 | Unconventional Fossil Energy Technologies | 0 | 545 | 228 | 316 |
| CE03 | Center for Zero Emissions Technology - Montana State | 11 | 1,350 | 330 | 1,031 |
| CE47 | Innovations for Low-Cost Gasification Systems | 0 | 5 | 0 | 5 |
| CE54 | Design and Test of an Advanced SOFC Generator in PA | 0 | 6 | 0 | 6 |
| **Total Operating** | | **13,030** | **13,750** | **6,969** | **19,810** |
| **TOTAL ASSISTANT SECRETARY FOR FOSSIL ENERGY** | | **13,030** | **13,750** | **6,969** | **19,810** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4d

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| DF01 | First Repository | 45 | 0 | 0 | 45 |
| DF09 | Program Support | 42 | (1) | 39 | 3 |
| **Total Operating** | | **87** | **(1)** | **39** | **48** |
| **TOTAL OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT** | | **87** | **(1)** | **39** | **48** |
| Note: Minor variances may occur due to rounding. | | | | | |

| ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| EY40 | Defense Site Acceleration Completion - Technology Development and Deployment | 186 | 2,590 | 1,817 | 959 |
| EY80 | Defense Environmental Cleanup - Program Support | 40 | 85 | 58 | 67 |
| EZ06 | Non-Defense Site Acceleration Completion - 2006 Accelerated Completions | 0 | (0) | 0 | 0 |
| EZ50 | Non-Defense Environmental Cleanup - Small Sites | 830 | 0 | 94 | 736 |
| **Total Operating** | | **1,056** | **2,675** | **1,969** | **1,761** |
| **TOTAL ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT** | | **1,056** | **2,675** | **1,969** | **1,761** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4e

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF HEALTH SAFETY AND SECURITY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| HA10 | Worker Advocacy | 0 | (0) | 0 | 0 |
| HD10 | Other Defense Activities (Operating) | 0 | (0) | 0 | 0 |
| HD20 | Health | 0 | (0) | 0 | 0 |
| HQ10 | Employee Compensation | 7 | 35 | 24 | 18 |
| HU20 | Health | 141 | 115 | 257 | 0 |
| **Total Operating** | | **149** | **150** | **281** | **18** |
| **TOTAL OFFICE OF HEALTH SAFETY AND SECURITY** | | **149** | **150** | **281** | **18** |
| Note: Minor variances may occur due to rounding. | | | | | |

| ASSISTANT SECRETARY FOR NUCLEAR ENERGY | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| AF36 | Generation IV Nuclear Energy Systems Initiative (Generation IV) | 0 | 200 | 67 | 133 |
| AF58 | Fuel Cycle Research and Development (FCR&D) | 444 | 1,345 | 1,418 | 371 |
| **Total Operating** | | **444** | **1,545** | **1,485** | **504** |
| **TOTAL ASSISTANT SECRETARY FOR NUCLEAR ENERGY** | | **444** | **1,545** | **1,485** | **504** |
| Note: Minor variances may occur due to rounding. | | | | | |

*continued...*

Table 2.4f

## FY2010 Funding and Costs by DOE Programs ($K) Continued

| OFFICE OF ENERGY AND THREAT | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| GD40 | Program Direction | 365 | (65) | 38 | 262 |
| **Total Operating** | | **365** | **(65)** | **38** | **262** |
| **TOTAL OFFICE OF ENERGY AND THREAT** | | **365** | **(65)** | **38** | **262** |
| Note: Minor variances may occur due to rounding. | | | | | |

| ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| PE01 | Policy, Planning And Analysis | 21 | 0 | 21 | 0 |
| PE06 | Climate Change Technology Program | 0 | 741 | 40 | 701 |
| WA22 | Office of International Affairs - Program Direction | 78 | 0 | 36 | 42 |
| **Total Operating** | | **99** | **741** | **96** | **743** |
| **TOTAL ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS** | | **99** | **741** | **96** | **743** |
| Note: Minor variances may occur due to rounding. | | | | | |

| OFFICE OF CHIEF FINANCIAL OFFICER | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING** | | | | | |
| CJ01 | ARPA-E Projects | 15 | 5,297 | 30 | 5,282 |
| **Total Operating** | | **15** | **5,297** | **30** | **5,282** |
| **TOTAL OFFICE OF CHIEF FINANCIAL OFFICER** | | **15** | **5,297** | **30** | **5,282** |
| Note: Minor variances may occur due to rounding. | | | | | |

| OFFICE OF CHIEF INFORMATION OFFICER | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| CS50 | CS - Program Services | 0 | 460 | 299 | 161 |
| **Total Operating** | | **0** | **460** | **299** | **161** |
| **TOTAL OFFICE OF CHIEF INFORMATION OFFICER** | | **0** | **460** | **299** | **161** |
| Note: Minor variances may occur due to rounding. | | | | | |

Table 2.5

## FY2010 Funding and Costs by Other Direct Operating Source ($K)

| Funding Source | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|
| **REIMBURSABLE WORK FOR NON-DOE ENTITIES** | | | | |
| **Work for Other Federal Sponsors** | | | | |
| Department of Agriculture | 39 | 58 | 60 | 38 |
| Department of Commerce | 30 | (29) | - | 2 |
| Department of Defense | 14,921 | 12,395 | 13,443 | 13,976 |
| Department of Homeland Security - Borders & Transportation | 53 | 846 | 407 | 493 |
| Department of Homeland Security - Domestic Nuclear Detection Office | 362 | 1,389 | 1,183 | 569 |
| Department of Homeland Security - Information Analysis and Infrastructure Protection | 1 | (1) | - | - |
| Department of Homeland Security - Science & Technology | 2,147 | 2,813 | 3,133 | 1,831 |
| Department of Housing and Urban Development | - | 97 | 71 | 28 |
| Department of Interior | 219 | 326 | 317 | 237 |
| Department of State - International Affairs & Energy Emergencies | 176 | - | 181 | 0 |
| Department of State - Other | 2,950 | - | 1,148 | 1,806 |
| Environmental Protection Agency | 1,940 | 2,880 | 1,709 | 3,167 |
| National Aeronautics and Space Administration (NASA) | 2,044 | 3,012 | 2,755 | 2,407 |
| National Institutes of Health (a) | 42,324 | 42,534 | 46,617 | 38,358 |
| National Science Foundation (a) | 488 | 277 | 307 | 467 |
| Nuclear Regulatory Commission | 550 | 744 | 581 | 730 |
| Other Energy Related Activities | 1,429 | 784 | 1,171 | 1,080 |
| Other Federal Agencies - Defense Related | 318 | 103 | 132 | 292 |
| Other Federal Agencies - Energy Related | 402 | 700 | 555 | 604 |
| **Total Work for Other Federal Sponsors** | **70,393** | **68,928** | **73,768** | **66,085** |

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

*continued...*

Table 2.5

## FY2010 Funding and Costs by Other Direct Operating Source ($K) Continued

| Funding Source | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|
| **Work for Non-Federal Sponsors** | | | | |
| Foreign Governments | 243 | 340 | 252 | 337 |
| Industry | 7,836 | 13,234 | 13,549 | 7,898 |
| State and Local Governments & NPO's | 7,859 | 21,218 | 18,114 | 10,853 |
| Universities and Institutes | 8,013 | 21,340 | 23,117 | 7,277 |
| Cost of Work for Others Program (WN) (a) | 5,651 | 2,867 | 366 | 8,157 |
| **Total Work for Non-Federal Sponsors** | **29,601** | **58,998** | **55,399** | **34,523** |
| **Cooperative Research and Development Agreements** | | | | |
| CRADA - Small Business | 77 | 107 | 178 | 5 |
| CRADA - Other | 519 | 375 | 607 | 304 |
| **Total Cooperative Research and Development Agreements** | **596** | **482** | **785** | **310** |
| **TOTAL REIMBURSABLE WORK FOR NON-DOE ENTITIES** | **100,591** | **128,407** | **129,952** | **100,918** |
| **Work for Other DOE Integrated Contractors** | | | | |
| Work Performed for Other DOE Locations (b) | - | 11,007 | 11,007 | - |
| **Total Work for Other DOE Integrated Contractors** | **-** | **11,007** | **11,007** | **-** |
| | | | | |
| **TOTAL OTHER DIRECT OPERATING (c) (d)** | **100,591** | **139,413** | **140,959** | **100,918** |

Note: Minor variances may occur due to rounding.

(a) Includes funding for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

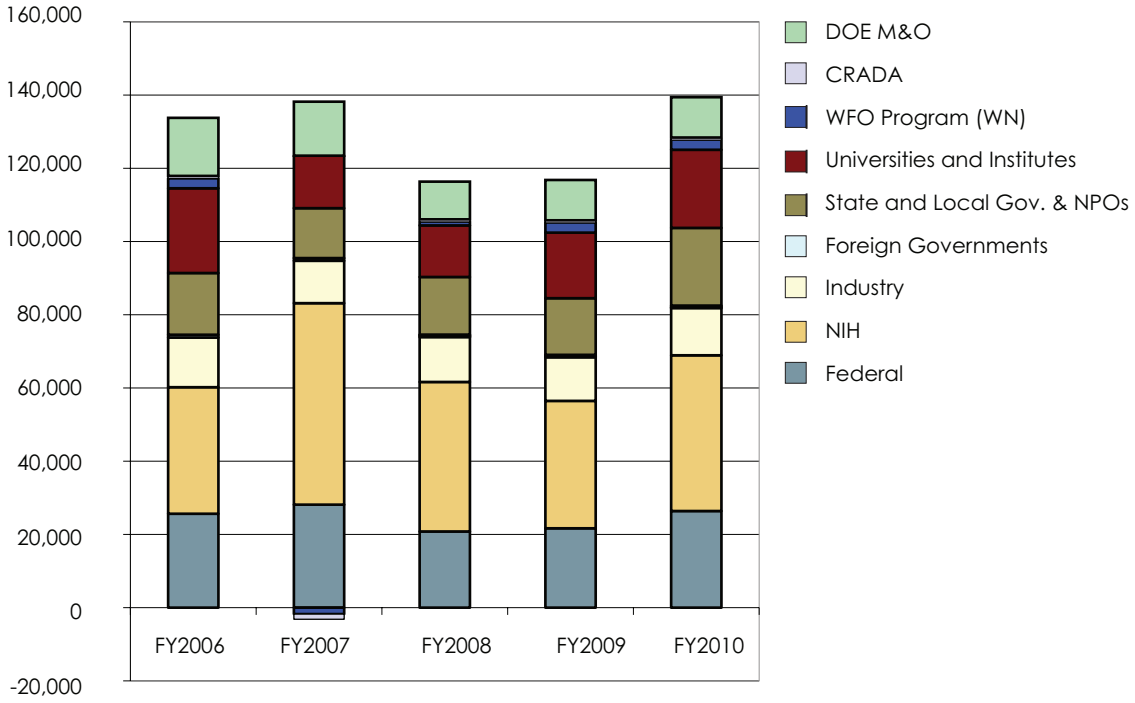
(b) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

(c) The sum of FY2010 Beginning Uncosted Obligations, FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872K).

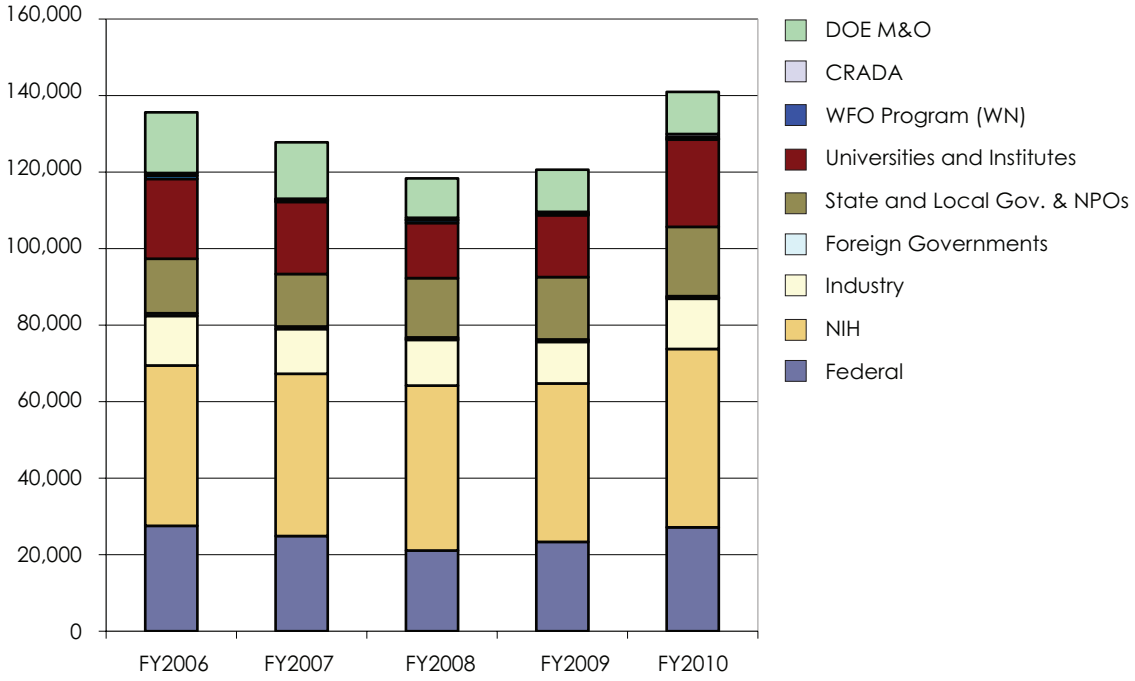
(d) Includes funds and costs for American Recovery and Reinvestment Act (ARRA), ($8,226, $8,086K, respectively) see Table 3.4 for details by sponsor.

Figure 2.1

## FY2010 Funding and Cost Trends by Other Direct Operating Source ($K)




Annual Funding Information ($K)




Annual Cost Information ($K)

3. American Recovery and Reinvestment Act of 2009 (ARRA)

Table 3.1

## LBNL ARRA Fund Trends (BA) by Funding Source ($K)

| Funding Source | FY2009 | FY2010 |
|---|---|---|
| **OPERATING** | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 3,664 | 37,206 |
| Assistant Secretary for Fossil Energy | - | 4,950 |
| Office of Electricity Delivery and Energy Reliability | - | 2,795 |
| Office of Science | 78,742 | 17,717 |
| Assistant Secretary Office of the Chief Financial Officer | 28 | 5,297 |
| **Total Operating** | **82,434** | **67,965** |
| **OTHER DIRECT OPERATING** | | |
| Work for Other Federal Agencies | 1,767 | 5,453 |
| Work for Non-Federal Sponsors | 25 | 1,896 |
| Work for Other DOE Integrated Contractors (b) | - | 876 |
| **Total Other Direct Operating** | **1,792** | **8,226** |
| **TOTAL OPERATING** | **84,226** | **76,191** |
| **DOE PLANT AND CAPITAL EQUIPMENT**<br>***Basic Equipment/Major Items of Equipment*** | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | - | 4,700 |
| Office of Science | 75,950 | (492) |
| **Total Capital Equipment** | **75,950** | **4,209** |
| ***General Plant Projects*** | | |
| Office of Science | 16,300 | - |
| **Total General Plant Projects** | **16,300** | **-** |
| ***Accelerator Improvement Projects*** | | |
| Office of Science | 7,680 | - |
| **Total Accelerator Improvement Projects** | **7,680** | **-** |
| ***Line Item Construction*** | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | - | 15,700 |
| Office of Science | 29,546 | - |
| **Total Line Item Construction** | **29,546** | **15,700** |
| **TOTAL DOE PLANT AND CAPITAL EQUIPMENT** | **129,476** | **19,909** |
| | | |
| **TOTAL LABORATORY** | **213,702** | **96,099** |
| Note: Minor variances may occur due to rounding. | | |

Table 3.2

## LBNL ARRA Cost Trends by Funding Source ($K)

| Funding Source | FY2009 | FY2010 |
|---|---|---|
| **OPERATING** | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | 68 | 11,652 |
| Assistant Secretary for Fossil Energy | - | 208 |
| Office of Electricity Delivery and Energy Reliability | - | 450 |
| Office of Science | 4,368 | 30,689 |
| Assistant Secretary Office of the Chief Financial Officer | 13 | 30 |
| **Total Operating** | **4,449** | **43,029** |
| **OTHER DIRECT OPERATING** | | |
| Work for Other Federal Agencies | 40 | 6,015 |
| Work for Non-Federal Sponsors | - | 1,195 |
| Work for Other DOE Integrated Contractors | - | 876 |
| **Total Other Direct Operating** | **40** | **8,086** |
| **TOTAL OPERATING** | **4,489** | **51,114** |
| **CAPITAL EQUIPMENT:** | | |
| Office of Science | 560 | 27,277 |
| **Total Capital Equipment** | **560** | **27,277** |
| **GENERAL PLANT PROJECTS** | | |
| Office of Science | 1,684 | 11,577 |
| **Total General Plant Projects** | **1,684** | **11,577** |
| **ACCELERATOR IMPROVEMENT PROJECTS** | | |
| Office of Science | 119 | 945 |
| **Total Accelerator Improvement Projects** | **119** | **945** |
| **LINE ITEM CONSTRUCTION** | | |
| Assistant Secretary for Energy Efficiency and Renewable Energy | - | 91 |
| Office of Science | 4,119 | 13,311 |
| **Total Line Item Construction** | **4,119** | **13,402** |
| **TOTAL DOE PLANT AND CAPITAL EQUIPMENT** | **6,482** | **53,201** |
| | | |
| **TOTAL LABORATORY** | **10,971** | **104,315** |
| Note: Minor variances may occur due to rounding. | | |

Figure 3.1

## Where Did Your ARRA Program Dollars Go in FY2010?

| Expenses | LBNL Cost Breakdown per Dollar | | | |
|---|---|---|---|---|
| | DOE Operating Costs | DOE Integrated Contractors Costs | Construction and Equipment | WFO Non-DOE |
| **DIRECT** | | | | |
| **Direct Labor** | | | | |
| UC Labor (a) | $0.08 | $0.56 | $0.09 | $0.35 |
| Contract Labor | $0.00 | $0.00 | $0.00 | $0.00 |
| Organizational Burden (b) | $0.01 | $0.09 | $0.01 | $0.07 |
| **Subtotal Direct Labor** | **$0.09** | **$0.65** | **$0.10** | **$0.42** |
| **Other Direct** | | | | |
| Services | $0.68 | $0.00 | $0.05 | $0.12 |
| Materials | $0.16 | $0.00 | $0.78 | $0.15 |
| Utilities | $0.00 | $0.00 | $0.00 | $0.00 |
| Other Expenses (c) | $0.00 | $0.01 | $0.00 | $0.02 |
| Recharges (b,d) | $0.00 | $0.01 | $0.00 | $0.02 |
| Travel | $0.00 | $0.01 | $0.00 | $0.01 |
| **Subtotal Other Direct** | **$0.84** | **$0.03** | **$0.83** | **$0.31** |
| **Total Direct** | **$0.93** | **$0.68** | **$0.93** | **$0.74** |
| **INDIRECT** | | | | |
| Procurement | $0.01 | $0.00 | $0.02 | $0.01 |
| Travel | $0.00 | $0.00 | $0.00 | $0.00 |
| G&A (Other Institutional) | $0.05 | $0.32 | $0.04 | $0.25 |
| **Total Indirect** | **$0.07** | **$0.32** | **$0.07** | **$0.26** |
| **TOTAL EXPENSES** | **$1.00** | **$1.00** | **$1.00** | **$1.00** |

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).
(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

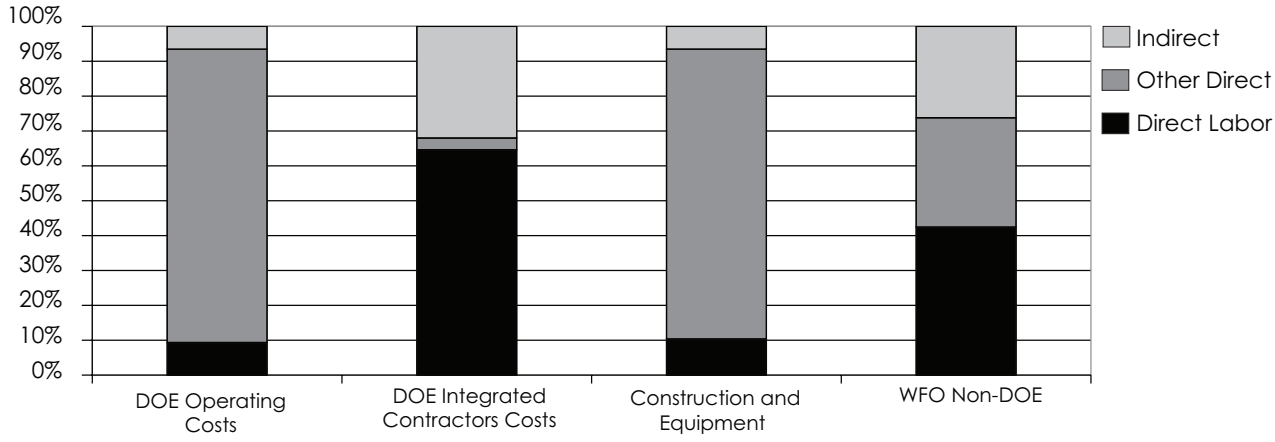


Table 3.3a

## FY2010 ARRA Funding and Costs by DOE Programs ($K)

| Office of Science ARRA | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| KA14 | Theoretical Physics | - | 2,500 | 169 | 2,331 |
| KA15 | Advanced Technology R&D | 1,801 | (909) | 272 | 619 |
| KB03 | Nuclear Theory | 916 | 2,500 | 388 | 3,028 |
| KB04 | Low Energy Physics | - | 1,026 | 8 | 1,018 |
| KC02 | Materials Sciences and Engineering | 308 | 2,500 | 269 | 2,539 |
| KG06 | Excess Facilities Disposition | 11,805 | - | 11,805 | 0 |
| KJ04 | Mathematical, Computational, and Computer Sciences Research | 4,000 | 4,047 | 608 | 7,439 |
| KJ05 | High Performance Computing and Network Facilities | 51,370 | 1,264 | 8,352 | 44,282 |
| KP15 | Biological Research | 4,174 | 4,790 | 8,818 | 146 |
| | **Total Operating** | **74,374** | **17,717** | **30,689** | **61,402** |
| **CAPITAL EQUIPMENT:** | | | | | |
| AT50 | Fusion Energy Sciences - Science | 10,615 | - | 4,082 | 6,532 |
| KA15 | Advanced Technology R&D | 15,000 | 5,298 | 4,518 | 15,780 |
| KC02 | Materials Sciences and Engineering | 11,378 | - | 5,822 | 5,556 |
| KJ05 | High Performance Computing and Network Facilities | 26,977 | (1,000) | 7,260 | 18,717 |
| KP15 | Biological Research (a) | 11,421 | (4,790) | 5,595 | 1,036 |
| | **Total Capital Equipment** | **75,390** | **(492)** | **27,277** | **47,621** |
| **GENERAL PLANT PROJECTS:** | | | | | |
| KG09 | General Plant Projects | 14,616 | - | 11,577 | 3,039 |
| | **Total General Plant Projects** | **14,616** | **-** | **11,577** | **3,039** |
| **ACCELERATOR IMPROVEMENT PROJECTS:** | | | | | |
| KB04 | Low Energy Physics | 1,769 | - | 594 | 1,175 |
| KC02 | Materials Sciences and Engineering | 5,792 | - | 351 | 5,441 |
| | **Total Accelerator Improvement Projects** | **7,561** | **-** | **945** | **6,617** |
| **LINE ITEM CONSTRUCTION:** | | | | | |
| 39KC | Basic Energy Sciences | 10,428 | - | 10,428 | 0 |
| 39KG | Science Laboratories Infrastructure | 14,999 | - | 2,883 | 12,116 |
| | **Total Line Item Construction** | **25,427** | **-** | **13,311** | **12,116** |
| | | | | | |
| **TOTAL OFFICE OF SCIENCE ARRA** | | **197,369** | **17,226** | **83,800** | **130,794** |

Note: Minor variances may occur due to rounding.
(a) KP15 shifted funds from Capital Equipment to Operating

*continued...*

Figure 3.3b

## FY2010 ARRA Funding and Costs by DOE Programs ($K) Continued

| Assistant Secretary for Energy Efficiency and Renewable Energy ARRA | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| BM01 | Biomass/Biofuels Energy Systems | - | 13,000 | 6,394 | 6,606 |
| BT01 | Residential Buildings | - | 7,151 | 1,479 | 5,672 |
| BT02 | Commercial Buildings Integration | - | 7,955 | 583 | 7,372 |
| EB36 | Facilities and Infrastructure | - | 200 | 195 | 5 |
| EB40 | Geothermal | 2,064 | 2,849 | 1,256 | 3,656 |
| EB51 | Energy Efficiency and Renewable Energy Program Direction | 171 | 3,821 | 184 | 3,808 |
| EL17 | Federal Energy Management Program | 1,361 | 231 | 1,560 | 31 |
| WI07 | Weatherization Assistance Program | - | 2,000 | - | 2,000 |
| | **Total Operating** | **3,596** | **37,206** | **11,652** | **29,150** |
| **CAPITAL EQUIPMENT:** | | | | | |
| BM01 | Biomass/Biofuels Energy Systems | - | 4,700 | - | 4,700 |
| | **Total Capital Equipment** | **-** | **4,700** | **-** | **4,700** |
| **LINE ITEM CONSTRUCTION:** | | | | | |
| 39EB | Facilities and Infrastructure | - | 15,700 | 91 | 15,609 |
| | **Total Line Item Construction** | **-** | **15,700** | **91** | **15,609** |
| **TOTAL ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY ARRA** | | **3,596** | **57,606** | **11,742** | **49,460** |

| Assistant Secretary for Fossil Energy ARRA | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| AA30 | Sequestration | - | 4,950 | 208 | 4,742 |
| | **Total Operating** | **-** | **4,950** | **208** | **4,742** |
| **TOTAL ASSISTANT SECRETARY FOR FOSSIL ENERGY ARRA** | | **-** | **4,950** | **208** | **4,742** |

| Office of Electricity Delivery and Energy Reliability ARRA | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| TD50 | Research and Development | - | 2,795 | 450 | 2,345 |
| | **Total Operating** | **-** | **2,795** | **450** | **2,345** |
| **TOTAL OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY ARRA** | | **-** | **2,795** | **450** | **2,345** |

Note: Minor variances may occur due to rounding.

*continued...*

Table 3.3c

## FY2010 ARRA Funding and Costs by DOE Programs ($K) Continued

| Assistant Secretary Office of the Chief Financial Officer ARRA | | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|---|
| **OPERATING:** | | | | | |
| CJ01 | ARPA-E Projects | 15 | 5,297 | 30 | 5,282 |
| | **Total Operating** | **15** | **5,297** | **30** | **5,282** |
| **TOTAL ASSISTANT SECRETARY OFFICE OF THE CHIEF FINANCIAL OFFICER ARRA** | | **15** | **5,297** | **30** | **5,282** |
| Note: Minor variances may occur due to rounding. | | | | | |

Table 3.4

## FY2010 ARRA Funding and Costs by Other Direct Operating Source ($K)

| | FY2010 Beginning Uncosted Obligations | FY2010 Funds | FY2010 Costs | FY2010 Ending Uncosted Obligations |
|---|---|---|---|---|
| **REIMBURSABLE WORK FOR OTHER AGENCIES** | | | | |
| **Work for Other Federal Agencies** | | | | |
| Department of Defense | 445 | 80 | 320 | 205 |
| National Institutes of Health (a) | 1,281 | 5,258 | 5,687 | 854 |
| National Science Foundation (a) | - | 15 | 1 | 14 |
| Other Energy Related Activities | - | 100 | 7 | 93 |
| **Total Work for Other Federal Agencies** | **1,726** | **5,453** | **6,015** | **1,166** |
| **Work for Non-Federal Agencies** | | | | |
| Industry | 25 | 365 | 132 | 259 |
| State and Local Governments & NPO's | - | 279 | 229 | 50 |
| Universities and Institutes | - | 1,018 | 777 | 251 |
| Cost of Work for Others Program (WN) (b) | - | 234 | 57 | 177 |
| **Total Work for Non-Federal Agencies** | **25** | **1,896** | **1,195** | **737** |
| **TOTAL REIMBURSABLE WORK FOR OTHER AGENCIES** | **1,751** | **7,350** | **7,210** | **1,902** |
| | | | | |
| **Work for Other DOE Integrated Contractors** | | | | |
| Work Performed for Other DOE Locations (c) | - | 876 | 876 | - |
| **Total Work for Other DOE Integrated Contractors** | **-** | **876** | **876** | **-** |
| **TOTAL OTHER DIRECT OPERATING (d)** | **1,751** | **8,226** | **8,086** | **1,902** |

Note: Minor variances may occur due to rounding.

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

(b) Includes funding for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

(c) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

(d) The sum of FY2010 Beginning Uncosted Obligations, FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2010 is ($11K).

Table 3.5

## ARRA Cost Trends by Expense Category, FY2009-FY2010 ($M and % of Total)

| Expenses | FY 2009 | | FY 2010 | |
|---|---|---|---|---|
| | $M | % | $M | % |
| **DIRECT** | | | | |
| Direct Labor | | | | |
| UC Labor (a) | 0.6 | 5.9% | 10.9 | 10.5% |
| Contract Labor | 0.0 | 0.0% | 0.1 | 0.1% |
| Organizational Burden (b) | 0.1 | 1.0% | 1.9 | 1.8% |
| **Subtotal Direct Labor** | **0.8** | **6.9%** | **12.9** | **12.4%** |
| **OTHER DIRECT** | | | | |
| Services | 8.0 | 73.1% | 48.8 | 46.8% |
| Materials | 1.6 | 14.6% | 33.3 | 31.9% |
| Utilities | 0.0 | 0.0% | 0.0 | 0.0% |
| Other Expenses (c) | 0.0 | 0.0% | 0.2 | 0.2% |
| Recharges (b,d) | 0.0 | 0.2% | 0.4 | 0.4% |
| Travel | 0.0 | 0.2% | 0.2 | 0.2% |
| **Subtotal Other Direct** | **9.7** | **88.1%** | **83.0** | **79.5%** |
| **Total Direct** | **10.4** | **95.0%** | **95.9** | **91.9%** |
| | | | | |
| **INDIRECT** | | | | |
| Procurement | 0.1 | 1.3% | 1.5 | 1.4% |
| Travel | 0.0 | 0.0% | 0.0 | 0.0% |
| G&A (Other Institutional) | 0.4 | 3.6% | 6.9 | 6.7% |
| **Total Indirect** | **0.5** | **5.0%** | **8.5** | **8.1%** |
| | | | | |
| **TOTAL EXPENSES** | **11.0** | **100.0%** | **104.3** | **100.0%** |

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).
(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

Table 3.6

## ARRA Job Reporting

| | Quarterly Jobs (a) | | | Office Of Science Life-to-Date Jobs | | |
|---|---|---|---|---|---|---|
| | LBNL | Sub-Recipient | Total | LBNL | Sub-Recipient | Total |
| | | | | | | |
| **Total DOE Direct ARRA Projects** | **93.6** | **175.4** | **269.0** | **77.0** | **515.0** | **592.0** |
| **Total Other Direct Operating ARRA Projects (b)** | **41.9** | **3.1** | **45.0** | **32.5** | **4.6** | **37.1** |
| | | | | | | |
| **LBNL TOTAL** | **135.4** | **178.5** | **314.0** | **109.5** | **519.6** | **629.1** |
| **DOE DIRECT ARRA PROJECT:** | | | | | | |
| ALS User Support Building | - | 32.8 | 32.8 | 5.0 | 106.0 | 111.0 |
| GPP, Upgrade Bldg 62 | - | - | 0.0 | 1.0 | 18.5 | 19.5 |
| GPP, Upgrade Bldg 66 | 1.4 | 16.6 | 18.1 | 2.0 | 17.0 | 19.0 |
| GPP, Air Handling Equipment | 0.1 | - | 0.1 | 1.0 | 11.0 | 12.0 |
| GPP, Upgrade Bldg 2 | 0.6 | 4.0 | 4.6 | 1.5 | 18.0 | 19.5 |
| GPP, Modernize Transformer | 1.5 | - | 1.5 | 2.5 | 4.0 | 6.5 |
| Bevatron Demolition | - | 9.5 | 9.5 | - | 22.5 | 22.5 |
| Seismic Phase 2, 09-SC-72 | 0.1 | 12.6 | 12.7 | 2.5 | 16.0 | 18.5 |
| Adv. Plasma Accel. Facility. (BELLA) | 14.8 | - | 14.8 | 5.5 | 12.5 | 18.0 |
| Nuclear Data Program Init. | 1.0 | - | 1.0 | - | 1.0 | 1.0 |
| Enh AIP Funding, Injector | 3.1 | - | 3.1 | 2.5 | - | 2.5 |
| Fed Lab Support for ARRA Trans | 0.9 | - | 0.9 | 1.0 | - | 1.0 |
| HEP-Adv Tech R&D Augmentation (Magnets) | 1.2 | - | 1.2 | 1.5 | - | 1.5 |
| Nanoscale Science Rsrch Centrs | 0.1 | - | 0.1 | - | 23.5 | 23.5 |
| Enh AIP Funding, RF Amplifier | 0.1 | - | 0.1 | 1.0 | - | 1.0 |
| Energy Frontier Research Cntrs | 0.1 | - | 0.1 | - | - | - |
| HEDLP NDCX-II | 12.6 | 0.3 | 12.9 | 10.5 | 7.0 | 17.5 |
| ALS Beamline Detectors | 2.7 | - | 2.7 | 2.0 | - | 2.0 |
| ALS Slice Beamline EPU | 2.6 | - | 2.6 | 2.0 | 1.0 | 3.0 |
| ALS Sextupoles Magnets | 1.9 | - | 1.9 | 2.0 | - | 2.0 |
| ALS High Field Vector Magnet | 0.9 | - | 0.9 | 1.0 | 0.5 | 1.5 |
| ARPA-E Early Harvest Solict. | - | - | - | - | - | - |
| Joint Genome Institute | - | - | - | - | 90.0 | 90.0 |
| Joint BioEnergy Institute | 0.0 | 1.7 | 1.7 | - | 31.5 | 31.5 |
| Advanced Networking Initiative | 7.5 | - | 7.5 | 5.0 | 11.5 | 16.5 |
| Comp. Partnerships (SciDAC-e) | 1.1 | - | 1.1 | 0.5 | - | 0.5 |
| Enhance FEMP Service Function | 4.8 | 1.7 | 6.4 | 4.0 | 1.0 | 5.0 |
| LBNL Magellan Cloud Computing | 1.1 | 19.6 | 20.7 | 5.5 | 83.0 | 88.5 |
| Climate100 - ESG to 100 Gbps | 1.1 | - | 1.1 | 1.0 | - | 1.0 |

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.
(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

*continued...*

Table 3.6

## **ARRA Job Reporting** Continued

| DOE Direct ARRA Project | Quarterly Jobs (a) | | | Office Of Science Life-to-Date Jobs | | |
|---|---|---|---|---|---|---|
| | LBNL | Sub-Recipient | Total | LBNL | Sub-Recipient | Total |
| Petascale Initiative | 5.7 | - | 5.7 | 3.0 | - | 3.0 |
| Enhanced Geothermal Systems (EGS) with C02 as Heat Transmission Fluid | 0.3 | 0.7 | 1.0 | 0.5 | 0.5 | 1.0 |
| Coupled Thermal-Hydrological-Mechanical-Chemical Model and Experiments for Optimization of Enhanced Geothermal System Development and Production | 1.1 | - | 1.1 | 1.0 | - | 1.0 |
| Fluid Imaging of Enhanced Geothermal Systems through Joint 3D Geophysical Inverse Modeling | 1.5 | - | 1.5 | 1.5 | - | 1.5 |
| Integrated Approach to Use Natural Chemical and Isotopic Tracers to Estimate Fracture Spacing and Surface Area in EGS Systems | 2.6 | - | 2.6 | 2.0 | - | 2.0 |
| National Accounts Acceleration in Support of Commercial Building Initiative | 2.6 | - | 2.6 | 1.0 | - | 1.0 |
| Smart Grid Investment Grant Program | 0.3 | 2.5 | 2.8 | - | 0.5 | 0.5 |
| Hospital Energy Benchmarking SysDev | - | - | - | - | - | - |
| Incorporating EE into Commercial Mortgage Underwriting | 0.8 | 4.9 | 5.7 | 0.5 | 1.5 | 2.0 |
| Northern California CO2 Reduction Project | - | - | - | 0.5 | - | 0.5 |
| Builders Challenge and Existing Home Retrofits | 0.9 | - | 0.9 | 0.5 | - | 0.5 |
| Advanced Biofuels PDU-Bioenergy Research Center Collaboration | 0.3 | 68.1 | 68.4 | - | 36.5 | 36.5 |
| Deep Exploratory Test well for CO2 Sequestration purposes, Newark Basin- Southern New York and New Jersey | 0.0 | - | 0.0 | - | - | - |
| Residential Home Retrofit Support & Research | 3.0 | - | 3.0 | 1.0 | - | 1.0 |
| Home Retrofits Rating Support | 5.2 | - | 5.2 | 2.5 | 0.5 | 3.0 |
| Residential Building Home Retrofit Analysis | - | - | - | - | - | - |
| Lab Call for Fac. and Equip.(NZE-User Test Bed) | 1.4 | 0.4 | 1.8 | 0.5 | - | 0.5 |
| High Energy Physics- Early Career Research Program | 1.7 | - | 1.7 | 0.5 | - | 0.5 |
| Basic Energy Sciences- Early Career Research Program | 1.6 | - | 1.6 | 0.5 | - | 0.5 |
| Nuclear Physics-Early Career Research Program | 1.8 | - | 1.8 | 1.0 | - | 1.0 |
| NP-3D Gamma ray Imaging Technologies | 0.1 | - | 0.1 | - | - | - |
| ASCR-Comp Partrnerships- SciDAC-e-PERC-3-Enhancing Productivity of Materials Discovery computation for Solar fuels and Next Gen. Autotuning Large Computational codes. | - | - | - | - | - | - |
| Visualization and Analytics Center for Enabling Technologies-VACET | 0.2 | - | 0.2 | - | - | - |
| Applied Partial Differential Equations Center for Enabling Technologies(APDEC) | 0.2 | - | 0.2 | - | - | - |
| Towards Optimal Petascale Simulations-TOPS-SciDAC-e | 0.1 | - | 0.1 | - | - | - |
| EE Technical Assistance | - | - | - | - | - | - |
| (a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4. | | | | | | |

*continued...*

Table 3.6

## **ARRA Job Reporting** Continued

| DOE Direct ARRA Project | Quarterly Jobs (a) | | | Office Of Science Life-to-Date Jobs | | |
|---|---|---|---|---|---|---|
| | LBNL | Sub-Recipient | Total | LBNL | Sub-Recipient | Total |
| Development of an Integrated Microbial-ElectroCatalytic (MEC) System for Liquid Biofuel Production from CO2 | 0.1 | - | 0.1 | - | - | - |
| High Throughput Discovery of Robust Metal Organic Frameworks for CO2 capture | 0.6 | - | 0.6 | - | - | - |
| ARRA Evaluation | 0.2 | - | 0.2 | - | - | - |
| Industrial Carbon Capture & Storage:Joint Inversion of Monitoring Data for Early Leakage Detection | 0.1 | - | 0.1 | - | - | - |
| **Total DOE Direct ARRA Project** | **93.6** | **175.4** | **269.0** | **77.0** | **515.0** | **592.0** |
| **OTHER DIRECT OPERATING ARRA PROJECT: (b)** | | | | | | |
| Evaluating Benefits of Advanced Metering Infrastructure, Smart Meters and Time-Varying Tariffs | 1.4 | - | 1.4 | 0.9 | - | 0.9 |
| Knowledgebase R&R Pilot Project | 1.1 | - | 1.1 | 1.8 | - | 1.8 |
| Knowledge Fusion and Data-Supported Deep Annotation for Reconstruction of Metabolism | 2.3 | - | 2.3 | 1.2 | - | 1.2 |
| Technical Support for the ARRA Technical Assistance Project (TAP) | 1.7 | - | 1.7 | 0.5 | - | 0.5 |
| Optics characterization for LCLS CXI and NIF SXI projects | 0.3 | - | 0.3 | 0.1 | - | 0.1 |
| Determining Technetium Speciation Using X-ray Absorption Fine Structure (XAFS) | - | - | - | - | - | - |
| Interregional Electricity Reliability Issue Assessment and Analysis | 0.0 | - | 0.0 | 0.0 | - | 0.0 |
| New Technologies, Electricity Demand, and Utility Resource Plans | - | - | - | - | - | - |
| Technical Assistance to Electric Infrastructure Planners on Other Subjects | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| A Distributed Intelligence Automated Demand Response Building Management System | - | - | - | - | - | - |
| Energy-Efficient and Comfortable Buildings through Multivariate Integrated Control (ECoMIC) | 0.0 | - | 0.0 | 0.0 | - | 0.0 |
| Wireless Modular Dimming Lighting Control System | - | - | - | - | - | - |
| Development of High Rate Sequential Coatings for Low Cost Electrochromic Glass | - | - | - | - | - | - |
| IWO - Battaglia | - | - | - | - | - | - |
| Automated Continuous Commissioning of Commercial Buildings | 0.9 | - | 0.9 | 1.1 | - | 1.1 |
| Red Cell Band 4.1--Developmental Changes in RNA Splicing | 4.0 | - | 4.0 | 3.9 | - | 3.9 |
| Red Cell Band 4.1 - Developmental Changes in RNA Splicing | - | - | - | - | - | - |
| Age of Onset and Huntingtons Disease | 3.6 | - | 3.6 | 1.7 | - | 1.7 |

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.

(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

*continued...*

Table 3.6

## **ARRA Job Reporting** Continued

| Other Direct Operating ARRA Project (b) | Quarterly Jobs (a) | | | Office Of Science Life-to-Date Jobs | | |
|---|---|---|---|---|---|---|
| | LBNL | Sub-Recipient | Total | LBNL | Sub-Recipient | Total |
| In Vivo Analysis of a Noncoding Susceptibility Region for Coronary Artery Disease | 1.9 | - | 1.9 | 1.7 | - | 1.7 |
| The Berkeley Cancer Genome Center | 0.3 | - | 0.3 | 0.8 | 0.1 | 0.9 |
| Accelerating Cancer Research with Single Cell Arrays | 0.4 | - | 0.4 | 0.7 | - | 0.7 |
| ARRA Development of the Cell Ontology in Support of the Gene Ontology | 0.9 | - | 0.9 | 1.4 | - | 1.4 |
| Self-healing Composites via Novel Biomolecular Design and Processing | 1.1 | - | 1.1 | 1.1 | - | 1.1 |
| MT Function and Dysfunction in Single Neurons in Vivo | 2.5 | - | 2.5 | 1.5 | - | 1.5 |
| Comprehensive characterization of the Drosophila transcriptome | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| Beamline Automation for Structure Determination | 0.2 | - | 0.2 | 1.2 | 0.3 | 1.5 |
| Bay Area Breast Cancer and the Environment Research Center | 0.4 | - | 0.4 | 0.9 | - | 0.9 |
| Mapping Anti-Cancer Drugs Using Advanced X-Ray Microanalysis | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| Genome-Wide Mapping of Chromosomal Proteins in Drosophilia | 1.0 | 1.1 | 2.1 | 0.8 | 0.5 | 1.3 |
| Generation of an In vivo Human Genome Transcriptional Enhancer Dataset | 1.0 | - | 1.0 | 0.6 | - | 0.6 |
| Matrix- Based Mineral (MBM) Enamel Biomimetics | 0.8 | - | 0.8 | 0.5 | - | 0.5 |
| Integrated nanoparticle characterization and toxicity assessment | 0.0 | - | 0.0 | 0.1 | - | 0.1 |
| Biomimetic Actinide Decorporation: Characterization and Preclinical Development | 5.5 | 2.0 | 7.5 | 2.9 | 3.7 | 6.6 |
| Manipulating b1 integrin to enhance radiation therapy for breast cancer | 1.0 | - | 1.0 | 0.7 | 0.1 | 0.8 |
| Non-B DNA Structure with Chemical Carcinogens | 0.7 | - | 0.7 | 0.7 | - | 0.7 |
| STCI: Middleware for Monitoring and Troubleshooting of Large-Scale Applications on National Cyberinfrastructure | 1.0 | - | 1.0 | 1.3 | - | 1.3 |
| PHENIX: new methods for automation in macromolecular crystallography | 1.1 | - | 1.1 | 0.9 | - | 0.9 |
| Mismatch Repair and DNA Expansion | 0.6 | - | 0.6 | 0.4 | - | 0.4 |
| Production of Advanced Coatings for Solar Cells | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| Multidimensional Electrofocusing on Gradient Monoliths | 0.5 | - | 0.5 | 0.2 | - | 0.2 |
| A metagenomic study of the Hoatzin crop microbes to reveal novel carbohydrate-active enzymes | - | - | - | - | - | - |
| National Institute for Computational Sciences (NICS) NSF Center for Remote Data Analysis and Visualization | 0.3 | - | 0.3 | 0.4 | - | 0.4 |

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.

(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

*continued...*

Table 3.6

## **ARRA Job Reporting** Continued

| Other Direct Operating ARRA Project (b) | Quarterly Jobs (a) | | | Office Of Science Life-to-Date Jobs | | |
|---|---|---|---|---|---|---|
| | LBNL | Sub-Recipient | Total | LBNL | Sub-Recipient | Total |
| Blind Geothermal System Exploration in Active Volcanic Environments; Multi-phase Geophysical and Geochemical Surveys in Overt and Subtle Volcanic Systems, Hawaii and Maui | 0.5 | - | 0.5 | 0.2 | - | 0.2 |
| In-situ protein-protein interaction network isPIN study | 0.4 | - | 0.4 | 0.1 | - | 0.1 |
| In-situ protein-protein interaction network isPIN study | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| A New Analytic-adaptive model for EGS assessment, development and management support | 0.6 | - | 0.6 | 0.1 | - | 0.1 |
| Optimized Drilling and Completion of Abrasive Slurry Jet Microhole Arrays for Efficient Exploitation of Enhanced Geothermal Systems | 0.9 | - | 0.9 | 0.2 | - | 0.2 |
| Geochemistry and THMC Models for the Newberry EGS Project | 0.1 | - | 0.1 | 0.0 | - | 0.0 |
| Characterizing Fractures in Geysers Geothermal Field by Micro-seismic Data, Using Soft Computing, Fractals, and Shear Wave Anisotropy | - | - | - | - | - | - |
| Automated Continuous Commissioning of Commercial Buildings | - | - | - | - | - | - |
| Novel Functions for Red Cell Proteins Lu and LW | 2.4 | - | 2.4 | 1.6 | - | 1.6 |
| **Total Other Direct Operating ARRA Projects (b)** | **41.9** | **3.1** | **45.0** | **32.5** | **4.6** | **37.1** |
| | | | | | | |
| **Total DOE Direct ARRA Projects** | **93.6** | **175.4** | **269.0** | **77.0** | **515.0** | **592.0** |
| **Total Other Direct Operating ARRA Projects (b)** | **41.9** | **3.1** | **45.0** | **32.5** | **4.6** | **37.1** |
| | | | | | | |
| **LBNL TOTAL** | **135.4** | **178.5** | **314.0** | **109.5** | **519.6** | **629.1** |

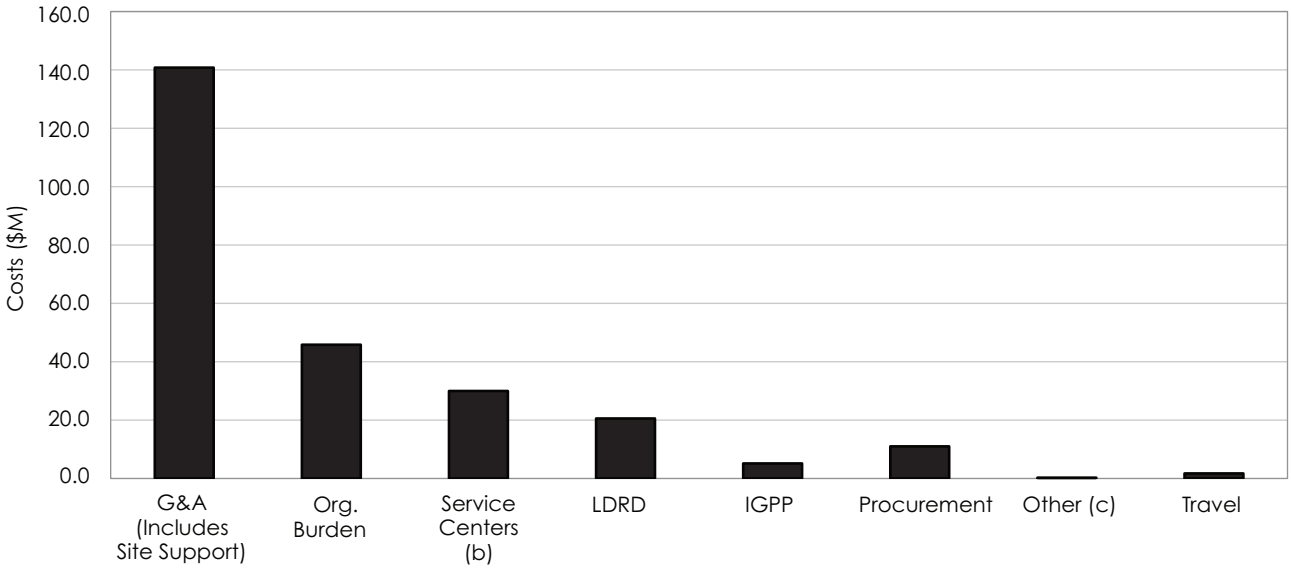
(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.
(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

# 4. Indirect Budgets

Figure 4.1

## Indirect Budgets — FY2010 Costs ($M)

| Indirect Budgets (a) | FY2010 Costs ($M) |
|---|---|
| G&A (Includes Site Support) | 140.8 |
| Organizational Burden | 45.8 |
| Service Centers (b) | 30.0 |
| LDRD | 20.6 |
| IGPP | 5.1 |
| Procurement | 11.0 |
| Other (c) | 0.3 |
| Travel | 1.7 |
| **Total** | **255.3** |



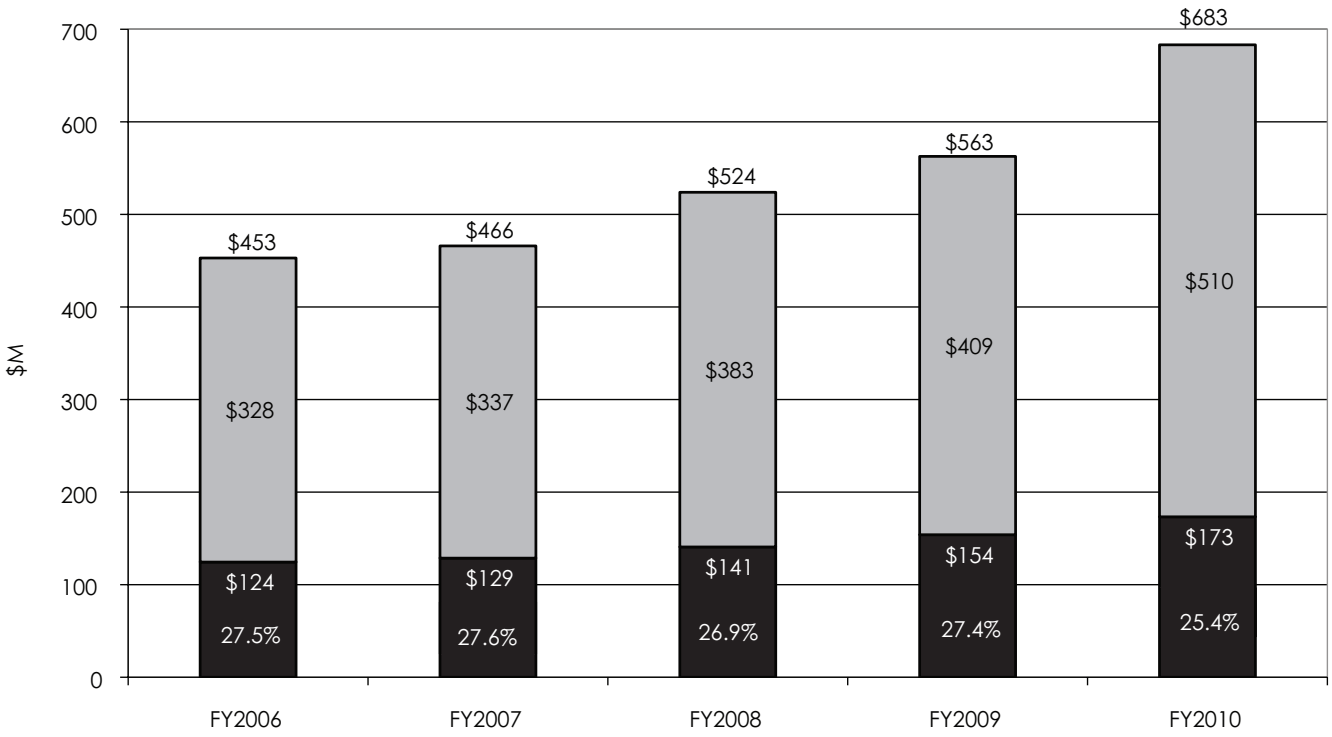

(a) Summation of indirect budget provided only to show magnitude of dollars being managed and does not equate to total indirect costs since there are overlaps between indirect budgets. For example, some organization burden costs are included in G&A and Recharges. In FY2010, LDRD cost includes $5.4M G&A assessed on LDRD projects.

(b) Service Centers includes recharge cost centers that default to B&R YN01 (project type OHRCH) only.

(c) Includes: Office of Homeland Security Charge.

Figure 4.2

## Institutional Overhead Costs as a Percent of Operating Costs, FY2006 - FY2010




Note: Chart represents the institutional overhead cost structure for each fiscal year with adjustments for indirect double count of G&A on LDRD projects (DOE mandate to apply G&A to LDRD projects beginning FY2006). Institutional overhead costs include G&A, LDRD, Site Support, Travel, Procurement, and IGPP. Percent is the percentage of indirect cost to total operating cost

Table 4.1

## Institutional Costs by Division, FY2010 ($K)

| Division | G&A | LDRD (a) | Procurement | Travel | IGPP | Total |
|---|---|---|---|---|---|---|
| Lab Directorate | 11,510 | | | | | 11,510 |
| LDRD | | 20,553 | | | | 20,553 |
| Engineering | 2,506 | | | | | 2,506 |
| Earth Science | 211 | | | | | 211 |
| ALD for Operations | | | | | | |
| ALD Office | 1,147 | | | | | 1,147 |
| IGPP | | | | | 5,147 | 5,147 |
| Non-Cap | 11,696 | | | | | 11,696 |
| Work Force Diversity Office | 278 | | | | | 278 |
| Public Affairs | 2,833 | | | | | 2,833 |
| Human Resources | 5,922 | | | | | 5,922 |
| Environmental Health & Safety | 25,374 | | | | | 25,374 |
| Facilities | 38,254 | | 2,406 | | | 40,660 |
| Office of the Chief Financial Officer | 8,546 | | 8,550 | 1,715 | | 18,812 |
| Information Technology | 24,575 | | 39 | 10 | | 24,625 |
| Project Management Office | 405 | | | | | 405 |
| Health, Safety, & Security | 262 | | | | | 262 |
| General Laboratory | 7,260 | | | | | 7,260 |
| **Total** | **140,779** | **20,553** | **10,996** | **1,726** | **5,147** | **179,200** |

Note: Minor variances may occur due to rounding.
(a) LDRD costs include $5.4M of G&A assessment.

Table 4.2

## Institutional FTEs Charged by Division, FY2010

| Division | G&A | LDRD (a) | Procurement | Travel | IGPP | Total |
|---|---|---|---|---|---|---|
| Lab Directorate | 54.8 | | | | | 54.8 |
| LDRD | | 91.9 | | | | 91.9 |
| Engineering | 9.4 | | | | | 9.4 |
| Earth Science | 1.0 | | | | | 1.0 |
| ALD for Operations | | | | | | |
| ALD Office | 5.6 | | | | | 5.6 |
| IGPP | | | | | 2.7 | 2.7 |
| Non-Cap | 14.4 | | | | | 14.4 |
| Work Force Diversity Office | 2.7 | | | | | 2.7 |
| Public Affairs | 16.5 | | | | | 16.5 |
| Human Resources | 41.0 | | | | | 41.0 |
| Environmental Health & Safety | 120.1 | | | | | 120.1 |
| Facilities | 142.9 | | 21.8 | | | 164.7 |
| Office of the Chief Financial Officer | 70.0 | | 62.7 | 11.4 | | 144.1 |
| Information Technology | 102.6 | | | | | 102.6 |
| Project Management Office | 2.0 | | | | | 2.0 |
| Health, Safety, & Security | 1.1 | | | | | 1.1 |
| General Laboratory | 0.0 | | | | | 0.0 |
| **Total** | **584.1** | **91.9** | **84.5** | **11.4** | **2.7** | **774.6** |

Note: Minor variances may occur due to rounding.
(a) LDRD projects conducted by multiple divisions as reflected in Table 1.3.

Figure 4.3

## Payroll Burden Summary ($M)

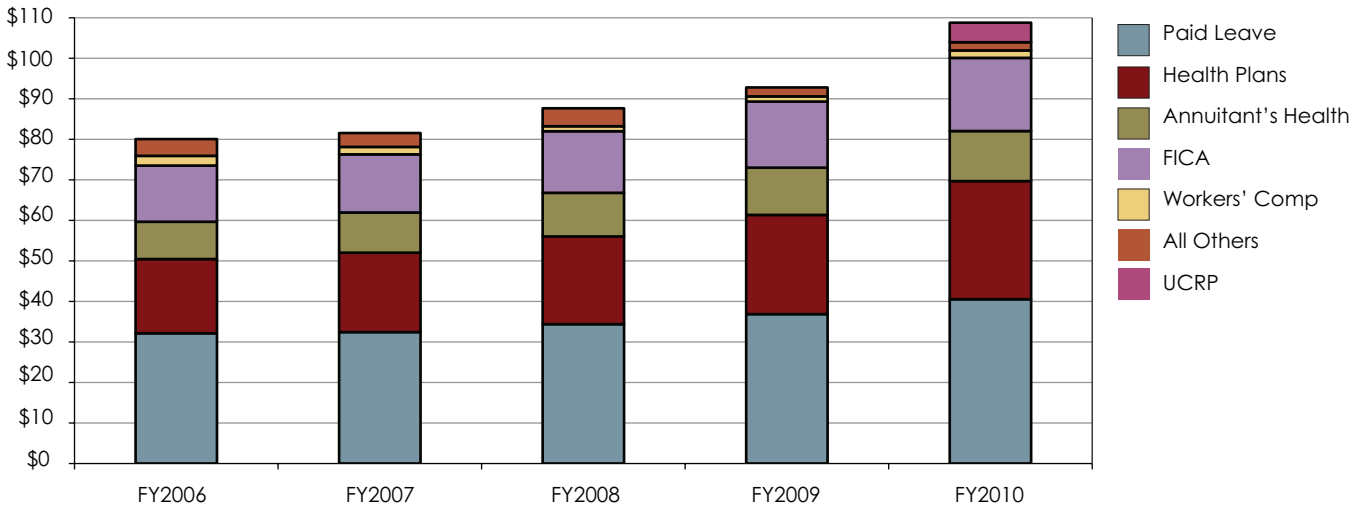



Figure 4.4

## Gross Payroll Summary ($M)

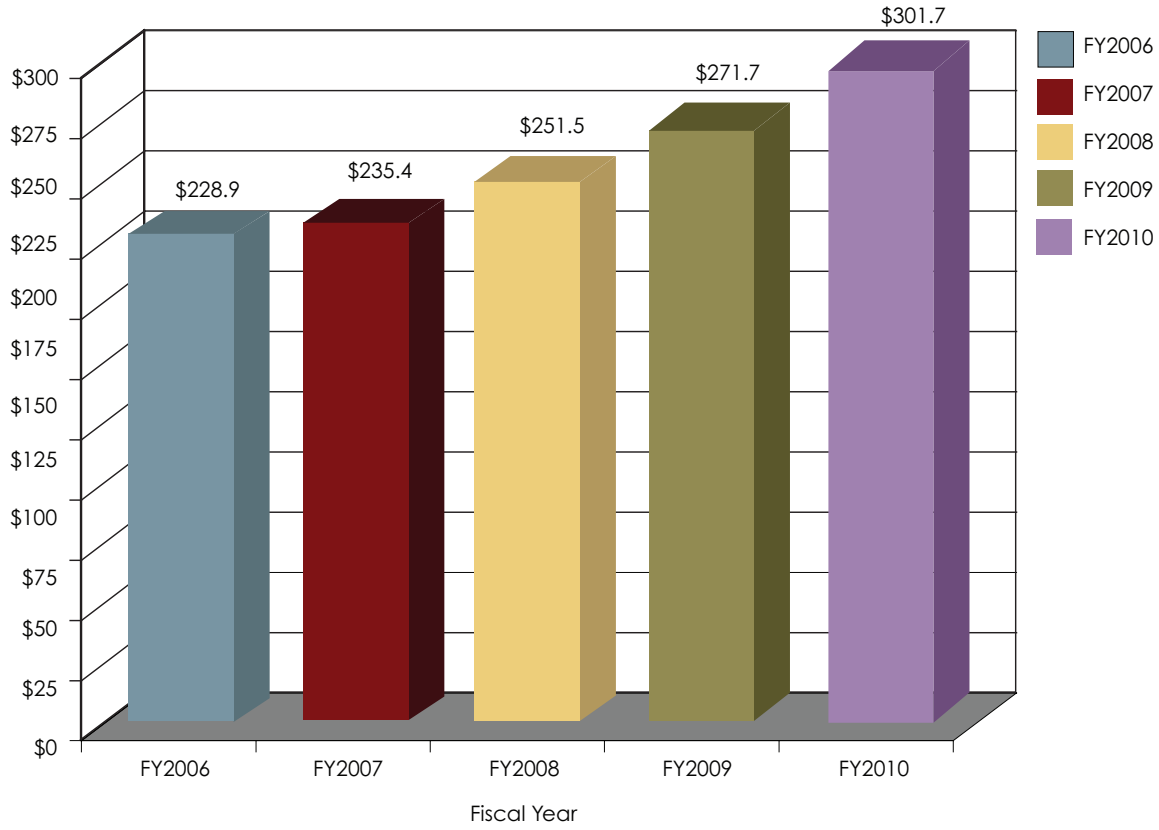


Table 4.3

## Organizational Burden Costs and FTEs

Organizational burden includes costs for the management and supervision of division/department activities and is distributed over labor costs including campus and contract labor.

| Division Cost Pools | FY2010 | |
|---|---|---|
| | Cost $K | Avg FTE |
| Accelerator & Fusion Research | 1,649 | 10.1 |
| Advanced Light Source | 2,189 | 14.6 |
| Chemical Sciences | 1,048 | 7.0 |
| Computing Sciences | 5,590 | 39.8 |
| Environmental Energy Technology | 4,420 | 29.8 |
| Engineering | 4,738 | 26.2 |
| Earth Sciences | 3,452 | 16.6 |
| Facilities | 4,172 | 24.1 |
| Genomics - Onsite | 449 | 3.2 |
| Information Technology | 3,102 | 15.5 |
| Life Sciences | 5,497 | 42.7 |
| Materials Sciences | 3,649 | 21.6 |
| Nuclear Sciences | 1,664 | 11.2 |
| Physical Biosciences | 2,645 | 20.2 |
| Physics | 1,565 | 10.6 |
| **Total** | **45,829** | **293.1** |
| Note: Minor Variances may occur due to rounding. | | |

Table 4.4

## Service Center Costs and FTEs

Certain Laboratory services are provided by recharges that recover operational costs through various cost-allocation mechanisms; e.g., by assigning a dollar value to the work performed (a unit charge based on an hourly rate) or the products produced (unit charge per item).

| | FY2010 | |
|---|---|---|
| **Division (a)** | **Cost $K** | **Avg. FTE** |
| Accelerator & Fusion Research | 162 | 0.5 |
| Environmental Energy Technology | 1,496 | 10.4 |
| Engineering | 1,497 | 8.6 |
| Facilities | 10,871 | 4.9 |
| Information Technology | 6,896 | 25.9 |
| Life Sciences | 550 | 3.9 |
| Materials Sciences | 234 | 1.4 |
| Physical Biosciences | 3,872 | 0.6 |
| ALD Operations (b) | 4,392 | 11.6 |
| **Total** | **29,970** | **67.7** |

Note: Minor Variances may occur due to rounding.

(a) Service Centers includes recharge cost centers that close to B&R YN01 (project type OHRCH) only and GSRA costs.

(b) Includes: GSRA costs.

Table 4.5

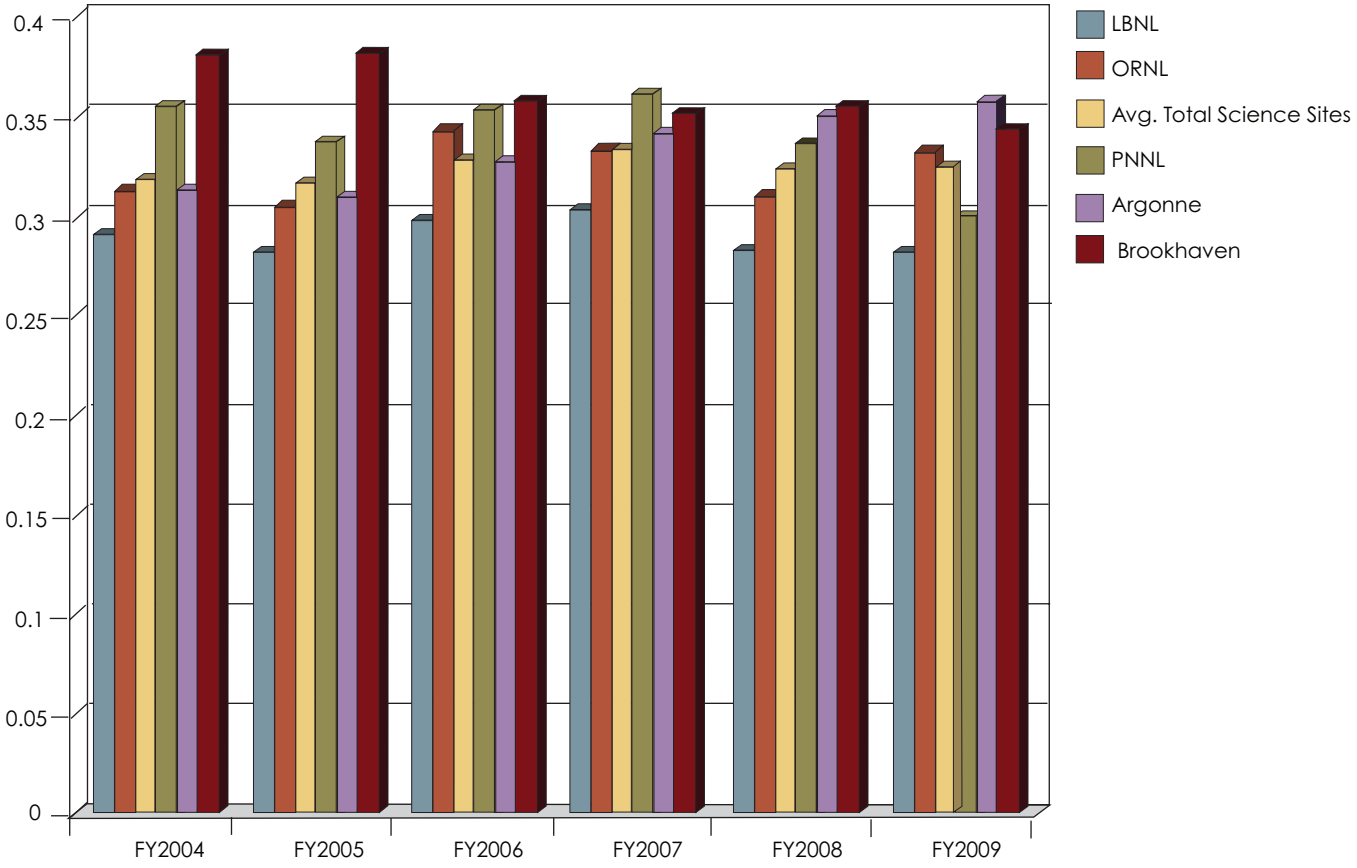
## Distributed Recharges by Resource Category Trends, FY2006 - FY2010 ($K)

| Distributed Recharge (a, b) | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 |
|---|---|---|---|---|---|
| Vehicle | 1,498 | 1,190 | 1,204 | 1,342 | 1,028 |
| MSD Facility | 367 | 316 | 273 | 310 | 234 |
| Building Manager | 84 | 151 | 160 | 143 | |
| ALS Apartment Recharge | 218 | 174 | 177 | | |
| Animal Care | 444 | 408 | 396 | 494 | 549 |
| Creative Services | 1,368 | 1,357 | 1,319 | 1,481 | 1,582 |
| 88-Inch Accelerator Operations | 135 | 421 | 545 | 444 | 688 |
| JBEI Non-Material Recharge | | | 70 | 240 | 252 |
| JBEI Material Recharge | | | 1,487 | 3,742 | 3,642 |
| Telephone Services | 4,753 | 4,080 | 3,980 | 4,408 | 4,687 |
| EETD Recharge | 1,077 | 1,065 | 1,106 | 1,187 | 1,495 |
| Molecular Foundry | 93 | 138 | 171 | 81 | 197 |
| Computer/Net Recharges | 5,613 | 4,376 | 2,733 | 2,605 | 2,415 |
| Engineering Shop | 890 | 839 | 951 | 927 | 932 |
| CAD | 634 | 636 | 647 | 654 | 731 |
| ALS Proprietary Recharge | 731 | 693 | 776 | 764 | 872 |
| HTA Non-Material Recharge | 33 | 38 | 49 | 13 | |
| HTA Material Recharge | 153 | 60 | 53 | 32 | |
| JGI Recharge (Capillary Sequencing) (c) | 13,083 | 12,316 | 10,887 | 10,352 | 1,149 |
| JGI Recharge (Synthesis Sequencing) | | 34 | | | |
| JGI WFO Administrative Charge | 195 | 102 | 183 | 319 | 223 |
| ESnet Recharge | 4,719 | 3,460 | 3,307 | 1,164 | 974 |
| Electricity | 6,335 | 7,307 | 8,382 | 9,106 | 9,855 |
| Conference Recharge | 73 | 60 | | | |
| GSRA - Material Recharge | | | | 2,549 | 2,554 |
| GSRA - Non-Material Recharge | | | | 1 | 1 |
| Low Background Facility | 11 | 31 | 67 | 72 | 45 |
| Print Room | 1 | | | | 0 |
| Biomed Isotopes | 91 | 51 | | | 0 |
| Mixed Waste Recharge/GL | 16 | 6 | 3 | 10 | 2 |
| Miscellaneous Recharges | 39 | (0) | | | |
| Rapid Prototyping Lab | | | | | |
| **Total Recharges** | **42,652** | **39,308** | **38,927** | **42,440** | **34,108** |

Note: Minor variances may occur due to rounding.
(a) Includes recharges credited back to direct operating accounts such as ALS, ESnet, JGI, etc.
(b) Does not include Procurement and Travel recharges
(c) JGI Recharge (Capillary Sequencing ) platform phased out in FY2010.

Figure 4.5

**Functional Support Costs as a Percent of Total Costs, FY2004 - FY2009**



# 5. Financial Statement

Table 5.1

## **Balance Sheet** Comparative Statement of Financial Position (in $K)

| | FY2009 | FY2010 |
|---|---|---|
| **ASSETS:** | | |
| ***Current Assets*** | | |
| Accounts Receivable (Note 2) | $ 7,603 | $ 5,371 |
| Inventories (Note 3) | 482 | 442 |
| Other Current Assets (Note 4) | 287 | 252 |
| **Total Current Assets** | **8,372** | **6,065** |
| Net Plant and Equipment (Note 5) | 620,265 | 683,626 |
| **Total Assets** | **628,637** | **689,691** |
| **LIABILITIES AND EQUITY:** | | |
| **Liabilities:** | | |
| ***Current Liabilities*** | | |
| Drafts Payable (Note 6) | $ (9,673) | $ 1,723 |
| Accounts Payable | 71,924 | 66,562 |
| Accrued Expenses | 46,061 | 48,346 |
| Other | 27,685 | 30,567 |
| **Total Current Liabilities** | **135,997** | **147,198** |
| Post-Retirement Benefits | 524,391 | 631,002 |
| Environmental Liabilities (Note 7) | 570,451 | 601,317 |
| Capital Lease Liability (Note 8) | 10,471 | 48 |
| ES&H Liability (Note 9) | 426,697 | 363,780 |
| Pension Plan Liability | 486,325 | 568,323 |
| **Total Liabilities** | **2,154,332** | **2,311,668** |
| DOE Equity: | | |
| Beginning Equity | $ (510,011) | $ (1,525,695) |
| Change in Equity | (1,015,684) | (96,282) |
| **Ending Equity** | **(1,525,695)** | **(1,621,977)** |
| **TOTAL LIABILITIES AND EQUITY** | **628,637** | **689,691** |

Note 1

## Summary of Significant Accounting Policies

### Basis of Presentation

These financial statements have been prepared to report the financial position and results of operations of LBNL. They have been prepared from the books and records of the Laboratory in accordance with LBNL's accounting policies which are summarized in this note.

### Reporting Entity

The Laboratory is a national research facility operated by UC for DOE under the terms of Contract DE-AC02-05CH11231 (Contract 31). The Laboratory's reporting entity status is that of an integrated contractor, meaning LBNL's accounts are integrated with those of DOE through the use of reciprocal accounts. All of the assets and liabilities are owned by the Federal Government.

### Basis of Accounting

The financial records of the Laboratory conform with generally accepted accounting principles (GAAP) and cost accounting standards (CAS) when they do not conflict with the provisions of the DOE accounting directives for Management and Operating (M&O) Contractors and are in compliance with Contract 31 between UC and DOE.

### Financial Sources

The Laboratory receives funding from DOE in accordance with the provisions of Contract 31. The Laboratory receives authorizations to incur costs and conduct operations through modifications to the contract.

Reimbursable work is performed for Federal and non-Federal entities. Costs are recorded and billed to the requesting entity by the Laboratory on behalf of DOE. Cash collected from these billings is transmitted to the U.S. Department of the Treasury and deposited in the DOE account. Non-Federally funded work performed at LBNL must be funded in advance.

### Letter of Credit

The Laboratory received authority for expenditures according to a checks-paid letter of credit from the U.S. Department of the Treasury; Letter of Credit Contract Number DE-AC02-05CH11231 with Wells Fargo Bank effective April 1, 2007 to March 31, 2011, with one option year for possible extension to March 31, 2012.

### Inventories

The Laboratory uses a perpetual inventory system for all inventories. An annual physical inventory is performed according to a cyclical sampling plan approved by DOE. Stores inventories and precious metals are valued and charged based on a moving average costing method. Special materials are valued by DOE.

### Property, Plant, and Equipment

Property, plant, and equipment are purchased, constructed, or fabricated in-house and include major modifications or improvements. These items are capitalized if they have an anticipated service life of two years or more and cost $50K or more. Costs of construction and fabrication are capitalized as construction/fabrication work in process. Upon completion or beneficial occupancy, the value is transferred to the appropriate fixed-assets account. Depreciation is computed using the straight-line method over the estimated useful life of the asset.

### Liabilities

Liabilities represent the amount of monies that are likely to be paid by the Laboratory as a result of transactions or events that have already occurred. Liabilities cannot be incurred by LBNL without an authorized appropriation, except for approved unfunded liabilities.

### Accrued Annual, Sick, and Other Leave

Laboratory policy provides for employees' annual vacation benefits ranging from 10 to 16 hours per month, depending upon years of service. Employees may accumulate vacation up to two times their annual leave. Upon retirement or termination, the employee is paid 100% of accumulated vacation pay.

Each employee accumulates sick leave at a rate of eight hours per month. Unused sick leave accumulates until it is used. If an employee terminates before using sick leave, the benefit is forfeited without liability to the Laboratory. Retiring employees are allowed to apply unused sick leave toward additional years of service.

### Retirement Plan

Most University career employees are participants in the UC Retirement System (UCRS). UCRS consists of a basic defined benefit plan and two voluntary plans composed

Note 1

## Summary of Significant Accounting Policies Continued

of several investment funds that are funded with University and employee contributions.

Note 2

## Accounts Receivable

The following were included in accounts receivable ($K):

| | FY2009 | FY2010 |
|---|---|---|
| Trade Receivables | 1,013 | 737 |
| Inter-DOE Operations Offices (outside local field office) | 2,297 | 1,143 |
| Intra-DOE Operations Offices (within local field office) | 482 | 238 |
| Employees | 1 | 68 |
| Parent Organization (UC) | (3,040) | (3,524) |
| Reimbursements - Federal Agencies | 6,854 | 6,713 |
| Allowance for Doubtful Accounts | (4) | (4) |
| **Total Accounts Receivable – September 30** | **7,603** | **5,371** |

Note 3

## Inventories

The following were included in inventories ($K):

| | FY2009 | FY2010 |
|---|---|---|
| Nuclear Materials | 25 | 26 |
| Precious Metals and Other Special Materials | 110 | 114 |
| Stores Inventories | 356 | 311 |
| Allowance for Loss on Stores | (9) | (9) |
| **Total Inventories – September 30** | **482** | **442** |

Note 4

## Other Current Assets

The following were included in other current assets ($K):

| | FY2009 | FY2010 |
|---|---|---|
| Advances to Other DOE Locations (Russian Subcontracts) | 33 | 0 |
| Prepayments | 249 | 247 |
| Security Deposits | 5 | 5 |
| **Total Other Current Assets – September 30** | **287** | **252** |

Note 5

## Net Plant and Equipment

The following were included in net plant and equipment ($K):

| | Plant & Equip. Costs | | Accumulated Depreciation | | Net Plant & Equip. | |
|---|---|---|---|---|---|---|
| **Category** | **FY2009** | **FY2010** | **FY2009** | **FY2010** | **FY2009** | **FY2010** |
| Structure, Facilities, & LI | 339,446 | 339,446 | (168,296) | 176,462 | 171,150 | 162,984 |
| Equipment | 422,755 | 460,116 | (279,692) | 310,092 | 143,063 | 150,024 |
| Leasehold Improvement | 25,255 | 25,255 | (18,104) | 18,549 | 7,151 | 6,706 |
| Utilities | 32,151 | 32,151 | (21,112) | 21,669 | 11,039 | 10,482 |
| Reactors & Accelerators | 146,701 | 147,569 | (111,025) | 121,059 | 35,676 | 26,510 |
| Work in Process | 222,405 | 306,810 | - | - | 222,405 | 306,810 |
| Assets Under Capital Lease | 46,922 | 46,922 | (17,141) | 26,812 | 29,781 | 20,110 |
| **Total Net Plant and Equipment - September 30** | **1,235,635** | **1,358,269** | **(615,370)** | **674,643** | **620,265** | **683,626** |

Note 6

## Drafts Payable

The following is an analysis of drafts payable ($K):

| | FY2009 | FY2010 |
|---|---|---|
| Balance - October 1 | (976) | (9,673) |
| Deposits: | | |
| Payments Vouchers - Letter of Credit | (622,164) | (776,246) |
| Miscellaneous Receipts | (58,220) | (69,926) |
| Disbursements | 671,687 | 857,568 |
| **Drafts Payable Balance - September 30** | **(9,673)** | **1,723** |

Note 7

## Environmental Liability

The estimated remaining cost of remediation of environmentally contaminated facilities at LBNL is recorded as a liability. The Environmental Management liability is based on baseline life-cycle cost estimates prepared with the DOE Site Office with updates for subsequent changes pursuant to DOE's established change control process. The Active Facilities liability is based on cost estimates generated for facilities reported in the Facility Information Management System. The funded portion of the liability is $736K and is included in Other Current Liabilities. The following are included in the environmental liability ($K):

| | FY2009 | FY2010 |
|---|---|---|
| Active Facilities | 570,451 | 601,317 |
| **Total Unfunded Environmental Liability - September 30** | **570,451** | **601,317** |

Note 8

## Capital Leases

LBNL has entered into capital leases for a Cray Supercomputer, and network equipment. The following is a schedule of future lease payments by fiscal year ($K):

| Fiscal Year | $K |
|---|---|
| FY2011 | 48 |
| **Total Future Payments** | **48** |

Note 9

## Environment, Safety and Health (ES&H) Liability

The ES&H Liability is based on ES&H compliance activities reported annually through the ES&H Management Plan that are necessary to bring facilities and operations into compliance with existing environmental, safety, and health laws and regulations, excluding activities included in the Environmental Liability. The following are the ES&H liability ($K):

| | FY2009 | FY2010 |
|---|---|---|
| **Total ES&H Liability – September 30** | **426,697** | **363,780** |

# 6. Procurement and Property Management

Table 6.1

## Requisitions Submitted by Laboratory Divisions

| Division | # Requisitions | Estimate ($K) |
|---|---|---|
| Accelerator & Fusion Research | 2,213 | $8,234 |
| Advanced Light Source | 3,471 | $12,223 |
| Chief Financial Officer | 1,779 | $10,153 |
| Chemical Sciences | 2,245 | $6,910 |
| Computational Research | 647 | $22,565 |
| Computing Sciences | 662 | $3,719 |
| Environmental Energy Technologies | 5,255 | $35,182 |
| Engineering | 1,343 | $3,892 |
| Environment, Health & Safety | 1,845 | $12,552 |
| Earth Sciences | 3,537 | $10,963 |
| Facilities | 4,209 | $107,660 |
| Genomics | 3,280 | $42,642 |
| Human Resources | 428 | $4,489 |
| Information Technology | 1,890 | $12,009 |
| Laboratory Directorate | 522 | $2,039 |
| Life Sciences | 8,156 | $20,022 |
| Material Sciences | 9,204 | $15,850 |
| NERSC | 418 | $12,651 |
| Nuclear Science | 1,276 | $10,495 |
| Operations | 202 | $3,426 |
| Public Affairs | 254 | $824 |
| Physical Biosciences | 6,434 | $27,893 |
| Physics | 1,460 | $17,609 |
| **TOTALS** | **60,730** | **$404,001** |

Table 6.2

## Purchases Placed Using Purchase Orders/Subcontracts

| | ($K) | # Actions |
|---|---|---|
| **Total POs** | **$394,742** | **46,192** |
| $0 - $2,500 | $12,529 | 40,477 |
| $2,500 - $10,000 | $14,091 | 2,671 |
| $10,000 - $25,000 | $20,607 | 1,249 |
| $25,000 - $100,000 | $62,934 | 1,246 |
| $100,000 - $1,000,000 | $138,832 | 493 |
| $1,000,000 + | $145,749 | 56 |

Table 6.3

## Purchases Placed Using P-Card

| | ($K) | # Actions |
|---|---|---|
| **Total POs** | **$14,959** | **15,346** |
| $0 - $500 | $1,785 | 9,055 |
| $500 - $1,000 | $1,823 | 2,595 |
| $1,000 - $2,500 | $3,436 | 2,197 |
| $2,500 - $5,000 | $3,520 | 1,004 |
| $5,000 + | $4,395 | 495 |

Table 6.4

## Laboratory Socioeconomic Performance

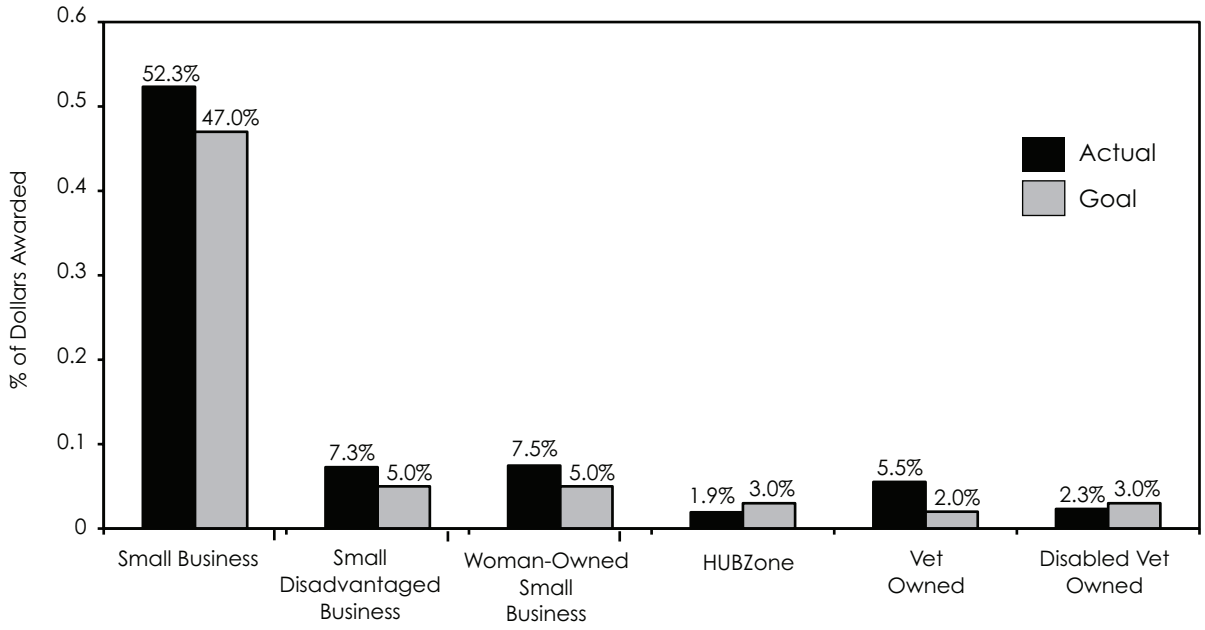


Table 6.5

## Property Management Activity

| CHARACTERIZATION OF LABORATORY ASSETS | | | |
|---|---|---|---|
| | **# of Assets** | **Acquisition Value ($K)** | |
| Equipment | 9,510 | 517,895 | |
| Sensitive Assets | 20,116 | 53,655 | |
| High Risk | 7 | 134,769 | |
| Computers Laptops | 4,075 | 8,489 | |
| Computer Desktops | 7,617 | 17,393 | |
| Loaned Assets | 88 | 5,098 | |
| Assets Created in FY2010 | 4,655 | 58,917 | |
| Assets to Excess in FY2010 | 2,253 | 45,187 | |
| **Inventory campaign** | **Base** | **Positive Resolutions** | **% Positive** |
| Controlled | 9,230 | 9,177 | 99.43 |
| Sensitive | 18,487 | 18,354 | 99.28 |
| High Risk | 8 | 8 | 100.00 |
| Validation Size | 53 | 53 | 100.00 |
| Assets Scanned | 25,601 | 27,539 | 92.34 |
| **Division** | **Asset Count** | **Asset Value** | |
| Accelerator & Fusion Research | 1,225 | 37,020 | |
| Advanced Light Source | 2,149 | 167,957 | |
| Chief Financial Officer | 369 | 444 | |
| Chemical Sciences | 1,314 | 26,325 | |
| Computational Research | 1,760 | 28,273 | |
| Computing Sciences | 129 | 235 | |
| Environmental Energy Technologies | 1,913 | 19,688 | |
| Engineering | 1,090 | 16,455 | |
| Environment, Health & Safety | 602 | 3,060 | |
| Earth Sciences | 1,415 | 14,853 | |
| Excess Turn-In Center | 175 | 2,238 | |
| Facilities | 1,172 | 6,816 | |
| Genomics | 2,027 | 43,729 | |
| Human Resources | 166 | 187 | |
| Information Technology | 2,494 | 14,909 | |
| Laboratory Directorate | 174 | 232 | |
| Life Sciences | 2,289 | 35,341 | |
| Materials Sciences | 3,561 | 105,323 | |
| NERSC | 1,143 | 60,188 | |
| Nuclear Science | 836 | 37,883 | |
| Operations | 36 | 46 | |
| Public Affairs | 171 | 274 | |
| Physical Biosciences | 2,528 | 32,238 | |
| Physics | 895 | 52,605 | |
| **TOTAL LABORATORY ASSETS** | **29,633** | **706,319** | |

# 7. Acronyms and Key Terms

| | |
|---|---|
| AFRD | Accelerator and Fusion Research Division |
| ALS | Advanced Light Source |
| ANL | Argonne National Laboratory |
| A/S | Assistant Secretary (DOE) |
| B&R | Budget and Reporting |
| BA | Budget Authority |
| BES | Basic Energy Science |
| BNL | Brookhaven National Laboratory |
| BSC | Business Systems Committee |
| CAD | Computer Aided Design |
| CFO | Chief Financial Officer |
| CRADA | Cooperative Research and Development Agreement |
| DARHT | Dual Axis Radiographic Hydrodynamic Test |
| DNA | Deoxyribonucleic Acid |
| DOD | Department of Defense |
| DOE | Department of Energy |
| DOI | Department of Interior |
| ERWM | Environmental Restoration and Waste Management |
| EH&S | Environment, Health, and Safety |
| ESnet | Energy Sciences Network |
| FNAL | Fermi National Accelerator Laboratory |
| FTE | Full-Time Equivalent |
| FY | Fiscal Year (Oct. 1 through Sept. 30) |
| G&A | General and Administrative |
| G/L | General Ledger |
| GSO | Goods and Services on Order |
| HR | Human Resources |
| HWC | Hazardous Waste Charge |
| HZE | High-Z High-Energy |
| I-MANAGE | Integrated Management Navigation System |
| IC | Integrated Contractors |
| ICO | Integrated Contractor Order |
| IT | Information Technology |

| | |
|---|---|
| LANL | Los Alamos National Laboratory |
| LBF | Low Background Facilities |
| LBNL | Lawrence Berkeley National Laboratory |
| LDRD | Laboratory Directed Research and Development |
| LLNL | Lawrence Livermore National Laboratory |
| M&O | Management & Operating |
| NASA | National Aeronautics and Space Administration |
| NERSC | National Energy Research Scientific Computing Center |
| NIH | National Institutes of Health |
| NNSA | National Nuclear Security Administration |
| O&M | Operations & Maintenance |
| OASDI | Old Age, Survivors and Disability Insurance |
| OCFO | Office of the Chief Financial Officer |
| OHRCH | Overhead Recharge |
| ORNL | Oak Ridge National Laboratory |
| OSPIP | Office of Sponsored Projects and Industry Partnerships |
| PLF | Paid Leave Factor |
| PNNL | Pacific Northwest National Laboratory |
| PPPL | Princeton Plasma Physics Laboratory |
| R&D | Research and Development |
| SLAC | Stanford Linear Accelerator Center |
| SNAP | SuperNova Acceleration Project |
| SNL | Sandia National Laboratories |
| STARS | Standard Accounting and Reporting System |
| UC | University of California |
| WFO | Work for Others |

**Key Terms**

Throughout this document, $K means dollars in thousands, $M means dollars in millions, and $B means dollars in billions.

Cover Images:

The images on the cover represent Berkeley Lab's Five Strategic Initiatives: Carbon Cycle 2.0, The Next Generation Light Source, a Safe and Efficient Lab, Building Community, and Space.


# OCFO

## Office of the Chief Financial Officer